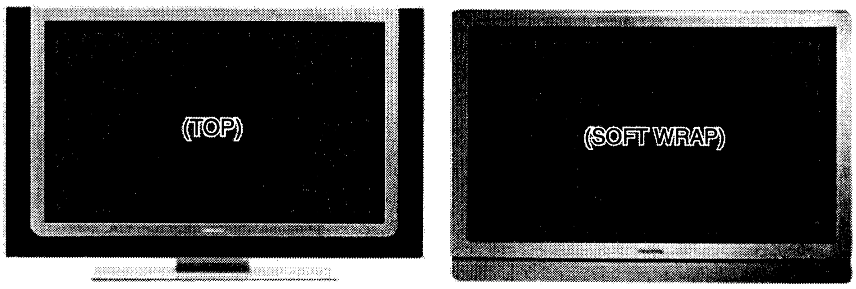
PHIL-05720

Colour television **Chassis**

FTL2.1E & FTL2.2E
AA

Service
Service
Service



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Service Manual

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PHILIPS

1. Technical Specifications, Connections, and Chassis Overview

Index of this chapter:
1.1 Technical Specifications
1.2 Connections
1.3 Chassis Overview

Note: Figures below can deviate slightly from the actual situation, due to the different set executions.

1.1 Technical Specifications

1.1.1 Vision

Display type	: LCD, VA
Screen size	: 32" (82 cm), 16:9
	: 37" (94 cm), 16:9
	: 42" (107 cm), 16:9
Resolution (HxV pixels)	: 1366(*3)x768 WXGA
Contrast ratio	: 800:1 (32-inch)
	: 800:1 (37-inch)
	: 500:1 (42-inch)
Light output (cd/m^2)	: 450 (32-inch)
	: 450 (37-inch)
	: 400 (42-inch)
LCD response time (ms)	: 12
Viewing angle (HxV degrees)	: 170 (32-inch)
	: 176 (37-inch)
	: 176 (42-inch)
Tuning system	: PLL
Colour systems	: PAL B/G, D/K, I
	: SECAM B/G, D/K, L/L'
Supported computer formats	: VGA (640x480)
	: SVGA (800x600)
	: XVGA (1024x768)
	: WXGA (1280x768)
Supported video formats	: 640x480i - 1fH
	: 720x576i - 1fH
	: 640x480p - 2fH
	: 720x576p - 2fH
	: 1920x1080i - 2fH
	: 1280x720p - 3fH
AV (playback only)	: NTSC, PAL, SECAM
Channel selections	: 100 presets
	: UVSH

1.1.2 Sound

Sound systems	: AV stereo,
	: FM/FM B/G
	: NICAM B/G, D/K, I
Maximum power (W$_{RMS}$)	: 2 x 15 (int.)

1.1.3 Miscellaneous

Mains voltage (V$_{AC}$)	: 220 - 240
Mains frequency	: 50 / 60 Hz
Ambient temperature (°C)	: +5 to +40
Maximum humidity (R.H>)	: 90%
Power consumption	
- Normal operation (W)	: 185 (32-inch)
	: 200 (37-inch)
	: 240 (42-inch)
- Stand-by (W)	: < 2

1.2 Connections

Note: The following connector colour abbreviations are used (acc. to DIN/IEC 757): Bk= Black, Bu= Blue, Gn= Green, Gy= Grey, Rd= Red, Wh= White, Ye= Yellow.

1.2.1 Side I/O

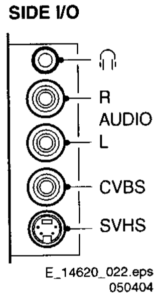

Figure 1-1 Side I/O connections

Headphone (Output)

- Headphone	32 - 600 ohm / 10 mW

Cinch: Video CVBS - In, Audio - In

Rd - Audio R	0.5 V$_{RMS}$ / 10 kohm
Wh - Audio L	0.5 V$_{RMS}$ / 10 kohm
Ye - Video CVBS	1 V$_{PP}$ / 75 ohm

SVHS (Hosiden): Video Y/C - In

1	- Ground Y	Gnd
2	- Ground C	Gnd
3	- Video Y	1 V$_{PP}$ / 75 ohm
4	- Video C	0.3 V$_{PP}$P / 75 ohm

1.2.2 Rear Connections

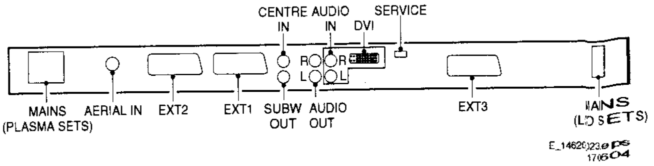

Figure 1-2 Rear connections

Aerial - In

- IEC-type	Coax, 75 ohm

SCART2: Video RGB/YC - In, CVBS - In/Out, Audio - In/Out

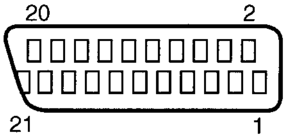

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Figure 1-3 SCART connector

1	-Audio R	0.5 V_{RMS} / 1 kohm	⊖→
2	-Audio R	0.5 V_{RMS} / 10 kohm	→⊖
3	-Audio L	0.5 V_{RMS} / 1 kohm	⊖→
4	-Ground Audio	Gnd	⏚
5	-Ground Blue	Gnd	⏚
6	-Audio L	0.5 V_{RMS} / 10 kohm	→⊖
7	-Video Blue/C-out	0.7 V_{PP} / 75 ohm	→⊖⊖→
8	-Function Select	0 - 2 V: INT 4.5 - 7 V: EXT 16:9 9.5 - 12 V: EXT 4:3	→⊖
9	-Ground Green	Gnd	⏚
10	-Easylink P50	0 - 5 V / 4.7 kohm	→⊖⊖→
11	-Video Green	0.7 V_{PP} / 75 ohm	→⊖
12	-n.c.		
13	-Ground Red	Gnd	⏚
14	-Ground P50	Gnd	⏚
15	-Video Red/C	0.7 V_{PP} / 75 ohm	→⊖
16	-Status/FBL	0 - 0.4 V: INT 1 - 3 V: EXT / 75 ohm	→⊖
17	-Ground Video	Gnd	⏚
18	-Ground FBL	Gnd	⏚
19	-Video CVBS	1 V_{PP} / 75 ohm	⊖→
20	-Video CVBS/Y	1 V_{PP} / 75 ohm	→⊖
21	-Shield	Gnd	⏚

SCART1: Video RGB - In, CVBS - In/Out, Audio - In/Out

1	-Audio R	0.5 V_{RMS} / 1 kohm	⊖→
2	-Audio R	0.5 V_{RMS} / 10 kohm	→⊖
3	-Audio L	0.5 V_{RMS} / 1 kohm	⊖→
4	-Ground Audio	Gnd	⏚
5	-Ground Blue	Gnd	⏚
6	-Audio L	0.5 V_{RMS} / 10 kohm	→⊖
7	-Video Blue	0.7 V_{PP} / 75 ohm	→⊖⊖→
8	-Function Select	0 - 2 V: INT 4.5 - 7 V: EXT 16:9 9.5 - 12 V: EXT 4:3	→⊖
9	-Ground Green	Gnd	⏚
10	-Easylink P50	0 - 5 V / 4.7 kohm	→⊖⊖→
11	-Video Green	0.7 V_{PP} / 75 ohm	→⊖
12	-n.c.		
13	-Ground Red	Gnd	⏚
14	-Ground P50	Gnd	⏚
15	-Video Red	0.7 V_{PP} / 75 ohm	→⊖
16	-Status/FBL	0 - 0.4 V: INT 1 - 3 V: EXT / 75 ohm	→⊖
17	-Ground Video	Gnd	⏚
18	-Ground FBL	Gnd	⏚
19	-Video CVBS	1 V_{PP} / 75 ohm	⊖→
20	-Video CVBS	1 V_{PP} / 75 ohm	→⊖
21	-Shield	Gnd	⏚

Cinch: Sub woofer - Out, Centre - In

Bu	-Centre	0.5 V_{RMS} / 10 kohm	→⊖⊚
Bk	-Sub woofer	0.5 V_{RMS} / 10 kohm	⊖→⊚

Cinch: Audio - Out

Rd	-Audio - R	0.5 V_{RMS} / 10 kohm	⊖→⊚
Wh	-Audio - L	0.5 V_{RMS} / 10 kohm	⊖→⊚

Cinch: DVI Audio - In

Rd	-Audio - R	0.5 V_{RMS} / 10 kohm	→⊖⊚
Wh	-Audio - L	0.5 V_{RMS} / 10 kohm	→⊖⊚

DVI-I: Digital/Analogue Video - In

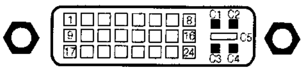

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Figure 1-4 DVI-I connector

1	-D2-		→⊖
2	-D2+		→⊖
3	-Shield	Gnd	⏚
4	-D4-		→⊖
5	-D4+		→⊖
6	-DDC_SCL	DDC clock	⊖→
7	-DDC_SDA	DDC data	→⊖⊖→
8	-V-sync	0 - 5 V	→⊖
9	-D1-		→⊖
10	-D1+		→⊖
11	-Shield	Gnd	⏚
12	-D3-		→⊖
13	-D3+		→⊖
14	-+5V		→⊖
15	-Ground	Gnd	⏚
16	-HPD	Hot Plug Detect	→⊖
17	-D0-		→⊖
18	-D0+		→⊖
19	-Shield	Gnd	⏚
20	-D5-		→⊖
21	-D5+		→⊖
22	-Shield	Gnd	⏚
23	-CLK+		→⊖
24	-CLK-		→⊖
C1	-Video Red	0.7 V_{PP} / 75 ohm	→⊖
C2	-Video Green	0.7 V_{PP} / 75 ohm	→⊖
C3	-Video Blue	0.7 V_{PP} / 75 ohm	→⊖
C4	-H-sync	0 - 5 V	→⊖
C5	-Ground	Gnd	⏚

Service connector (ComPair)

1	-SDA-S	I^2C Data (0 - 5 V)	→⊖⊖→
2	-SCL-S	I^2C Clock (0 - 5 V)	→⊖
3	-Ground	Gnd	⏚

SCART3: Video CVBS - In, Audio - In

1	-n.c.		
2	-Audio R	0.5 V_{RMS} / 10 kohm	→⊖
3	-n.c.		
4	-Ground Audio	Gnd	⏚
5	-Ground Blue	Gnd	⏚
6	-Audio L	0.5 V_{RMS} / 10 kohm	→⊖
7	-n.c.		
8	-Function Select	0 - 2 V: INT 4.5 - 7 V: EXT 16:9 9.5 - 12 V: EXT 4:3	→⊖
9	-Ground Green	Gnd	⏚
10	-n.c.		
11	-n.c.		
12	-n.c.		
13	-Ground Red	Gnd	⏚
14	-Ground Data	Gnd	⏚
15	-n.c.		
16	-n.c.		
17	-Ground Video	Gnd	⏚
18	-Ground FBL	Gnd	⏚
19	-n.c.		
20	-Video CVBS	1 V_{PP} / 75 ohm	→⊖
21	-Shield	Gnd	⏚

1.3 Chassis Overview

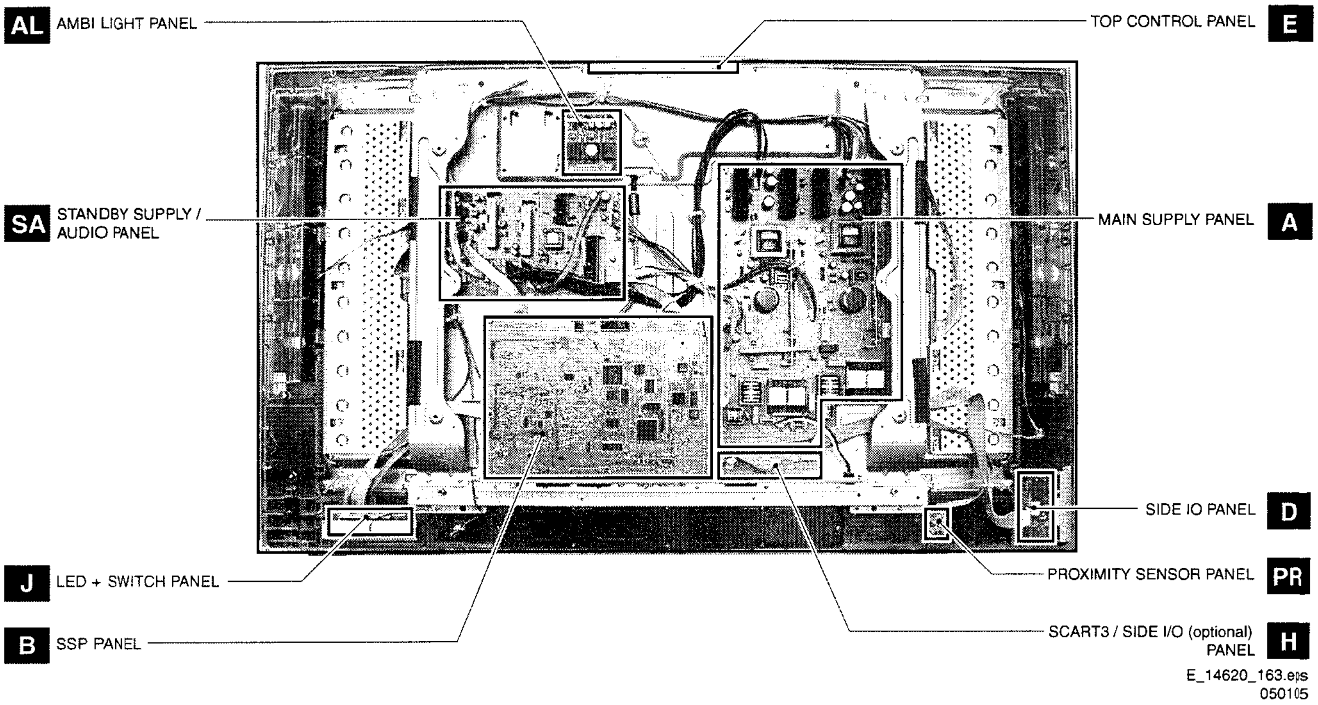
AL AMBI LIGHT PANEL
TOP CONTROL PANEL E
SA STANDBY SUPPLY / AUDIO PANEL
MAIN SUPPLY PANEL A
SIDE IO PANEL D
J LED + SWITCH PANEL
PROXIMITY SENSOR PANEL PR
B SSP PANEL
SCART3 / SIDE I/O (optional) PANEL H
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Figure 1-5 PWB locations (FTL2.1 "Top" model)

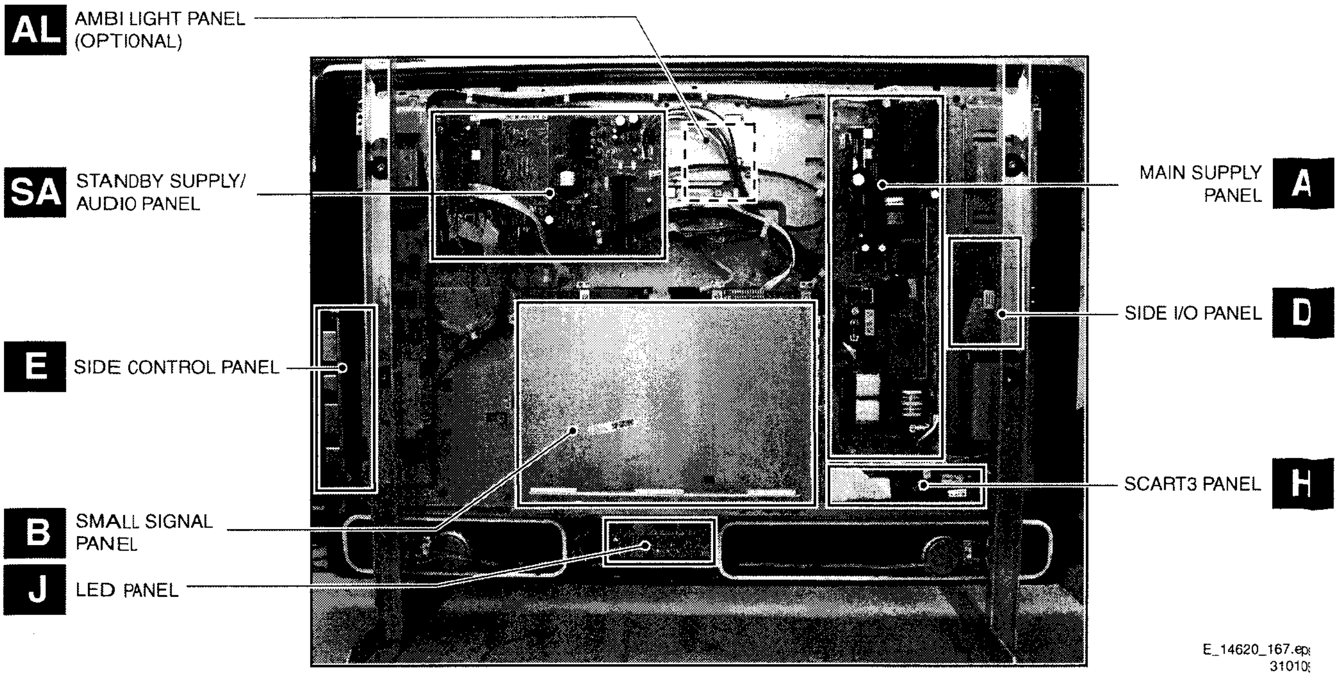
AL AMBI LIGHT PANEL (OPTIONAL)
SA STANDBY SUPPLY/ AUDIO PANEL
MAIN SUPPLY PANEL A
SIDE I/O PANEL D
E SIDE CONTROL PANEL
SCART3 PANEL H
B SMALL SIGNAL PANEL
J LED PANEL
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Figure 1-6 PWB locations (FTL2.2 "Wrap" model)

2. Safety Instructions, Warnings, and Notes

Index of this chapter:
2.1 Safety Instructions
2.2 Warnings
2.3 Notes

2.1 Safety Instructions

Safety regulations require the following **during** a repair:

- Connect the set to the Mains (AC Power) via an isolation transformer (> 800 VA).
- Replace safety components, indicated by the symbol ▲, only by components identical to the original ones. Any other component substitution (other than original type) may increase risk of fire or electrical shock hazard.

Safety regulations require that **after** a repair, the set must be returned in its original condition. Pay in particular attention to the following points:

- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the Mains (AC Power) lead for external damage.
- Check the strain relief of the Mains (AC Power) cord for proper function.
- Check the electrical DC resistance between the Mains (AC Power) plug and the secondary side (only for sets that have a Mains (AC Power) isolated power supply):
  1. Unplug the Mains (AC Power) cord and connect a wire between the two pins of the Mains (AC Power) plug.
  2. Set the Mains (AC Power) switch to the "on" position (keep the Mains (AC Power) cord unplugged!).
  3. Measure the resistance value between the pins of the Mains (AC Power) plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be between 4.5 Mohm and 12 Mohm.
  4. Switch "off" the set, and remove the wire between the two pins of the Mains (AC Power) plug.
- Check the cabinet for defects, to prevent touching of any inner parts by the customer.

2.2 Warnings

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD ⚠). Careless handling during repair can reduce life drastically. Make sure that, during repair, you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential. Available ESD protection equipment:
  - Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable) 4822 310 10671.
  - Wristband tester 4822 344 13999.
- Be careful during measurements in the high voltage section.
- Never replace modules or other components while the unit is switched "on".
- When you align the set, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

2.3 Notes

2.3.1 General

- Measure the voltages and waveforms with regard to the chassis (= tuner) ground (⏚), or hot ground (⊽), depending on the tested area of circuitry. The voltages and waveforms shown in the diagrams are indicative. Measure them in the Service Default Mode (see chapter 5) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz for PAL, or 61.25 MHz for NTSC (channel 3).
- Where necessary, measure the waveforms and voltages with (Ψ) and without (Ж) aerial signal. Measure the voltages in the power supply section both in normal operation (Ⓘ) and in stand-by (⏻). These values are indicated by means of the appropriate symbols.
- The semiconductors indicated in the circuit diagram and in the parts lists, are interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
- Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic” and the “double-D symbol”, are trademarks of Dolby Laboratories.

2.3.2 Schematic Notes

- All resistor values are in ohms, and the value multiplier is often used to indicate the decimal point location (e.g. 2K2 indicates 2.2 kohm).
- Resistor values with no multiplier may be indicated with either an "E" or an "R" (e.g. 220E or 220R indicates 220 ohm).
- All capacitor values are given in micro-farads (μ= x10^{-6}), nano-farads (n= x10^{-9}), or pico-farads (p= x10^{-12}).
- Capacitor values may also use the value multiplier as the decimal point indication (e.g. 2p2 indicates 2.2 pF).
- An "asterisk" (*) indicates component usage varies. Refer to the diversity tables for the correct values.
- The correct component values are listed in the Spare Parts List. Therefore, always check this list when there is any doubt.

2.3.3 Rework on BGA (Ball Grid Array) ICs

General
Although (LF)BGA assembly yields are very high, there may still be a requirement for component rework. By rework, we mean the process of removing the component from the PWB and replacing it with a new component. If an (LF)BGA is removed from a PWB, the solder balls of the component are deformed drastically so the removed (LF)BGA has to be discarded.

Device Removal
As is the case with any component that, is being removed, it is essential when removing an (LF)BGA, that the board, tracks, solder lands, or surrounding components are not damaged. To remove an (LF)BGA, the board must be uniformly heated to a temperature close to the reflow soldering temperature. A uniform temperature reduces the risk of warping the PWB.
To do this, we recommend that the board is heated until it is certain that all the joints are molten. Then carefully pull the component off the board with a vacuum nozzle. For the appropriate temperature profiles, see the IC data sheet.

Area Preparation
When the component has been removed, the vacant IC area must be cleaned before replacing the (LF)BGA.
Removing an IC often leaves varying amounts of solder on the mounting lands. This excessive solder can be removed with either a solder sucker or solder wick. The remaining flux can be removed with a brush and cleaning agent.
After the board is properly cleaned and inspected, apply flux on the solder lands and on the connection balls of the (LF)BGA.
Note: Do not apply solder paste, as this has been shown to result in problems during re-soldering.

Device Replacement

The last step in the repair process is to solder the new component on the board. Ideally, the (LF)BGA should be aligned under a microscope or magnifying glass. If this is not possible, try to align the (LF)BGA with any board markers. So as not to damage neighbouring components, it may be necessary to reduce some temperatures and times.

More Information

For more information on how to handle BGA devices, visit this URL: *www.atyourservice.ce.philips.com* (needs subscription, not available for all regions). After login, select "Magazine", then go to "Workshop Information". Here you will find Information on how to deal with BGA-ICs.

2.3.4 Lead-free Solder

Philips CE is producing lead-free sets (PBF) from 1.1.2005 onwards.

Identification: The bottom line of a type plate gives a 14-digit serial number. Digits 5 and 6 refer to the production year, digits 7 and 8 refer to production week (in example below it is 1991 week 18).

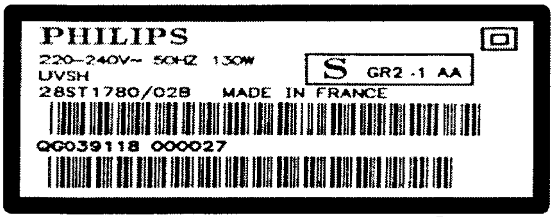

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Figure 2-1 Serial number example

Regardless of the special lead-free logo (which is not always indicated), one must treat all sets from this date onwards according to the rules as described below.

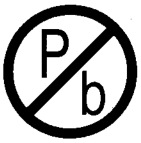

Figure 2-2 Lead-free logo

Due to lead-free technology some rules have to be respected by the workshop during a repair:

- Use only lead-free soldering tin Philips SAC305 with order code 0622 149 00106. If lead-free solder paste is required, please contact the manufacturer of your soldering equipment. In general, use of solder paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free soldering tin. The solder tool must be able:
  - To reach a solder-tip temperature of at least 400°C.
  - To stabilise the adjusted temperature at the solder-tip.
  - To exchange solder-tips for different applications.
- Adjust your solder tool so that a temperature of around 360°C - 380°C is reached and stabilised at the solder joint. Heating time of the solder-joint should not exceed ~ 4 sec. Avoid temperatures above 400°C, otherwise wear-out of tips will increase drastically and flux-fluid will be destroyed. To avoid wear-out of tips, switch "off" unused equipment or reduce heat.
- Mix of lead-free soldering tin/parts with leaded soldering tin/parts is possible but PHILIPS recommends strongly **to avoid** mixed regimes. If this cannot be avoided, carefully clear the solder-joint from old tin and re-solder with new tin.
- Use only original spare-parts listed in the Service-Manuals. Not listed standard material (commodities) has to be purchased at external companies.
- Special information for lead-free BGA ICs: these ICs will be delivered in so-called "dry-packaging" to protect the IC against moisture. This packaging may only be opened shortly before it is used (soldered). Otherwise the body of the IC gets "wet" inside and during the heating time the structure of the IC will be destroyed due to high (steam-) pressure inside the body. If the packaging was opened before usage, the IC has to be heated up for some hours (around 90°C) for drying (think of ESD-protection!).
  Do not re-use BGAs at all!
- For sets produced before 1.1.2005, containing leaded soldering tin and components, all needed spare parts will be available till the end of the service period. For the repair of such sets nothing changes.

In case of doubt whether the board is lead-free or not (or with mixed technologies), you can use the following method:

- Always use the highest temperature to solder, when using SAC305 (see also instructions below).
- De-solder thoroughly (clean solder joints to avoid the mixing of two alloys).

Caution: For BGA-ICs, you **must** use the correct temperature profile, which is coupled to the 12NC. For an overview of these profiles, visit the website *www.atyourservice.ce.philips.com* (needs subscription, but is not available for all regions).
You will find this and more technical information within the "Magazine", chapter "Workshop information".
For additional questions please contact your local repair help desk.

2.3.5 Practical Service Precautions

- **It makes sense to avoid exposure to electrical shock.** While some sources are expected to have a possible dangerous impact, others of quite high potential are of limited current and are sometimes held in less regard.
- **Always respect voltages.** While some may not be dangerous in themselves, they can cause unexpected reactions that are best avoided. Before reaching into a powered TV set, it is best to test the high voltage insulation. It is easy to do, and is a good service precaution.

3. Directions for Use

You can download this information from the following websites:
http://www.philips.com/support
http://www.p4c.philips.com

4. Mechanical Instructions

Index of this chapter:

4.1 Cable Dressing
4.2 Service Positions
4.3 Assy/PWB Removal (for FTL2.1 "Top" sets)
4.4 Assy/PWB Removal (for FTL2.2 "Wrap" Sets)
4.5 Set Re-assembly

Notes:

- Figures below can deviate slightly from the actual situation, due to the different set executions.
- Follow the disassemble instructions in described order.
- As this chassis has two different mecanical stylings, the dismantle instructions are splitted in two parts: one for the "Top" version and one for the "Wrap" version.

4.1 Cable Dressing

4.1.1 Chassis

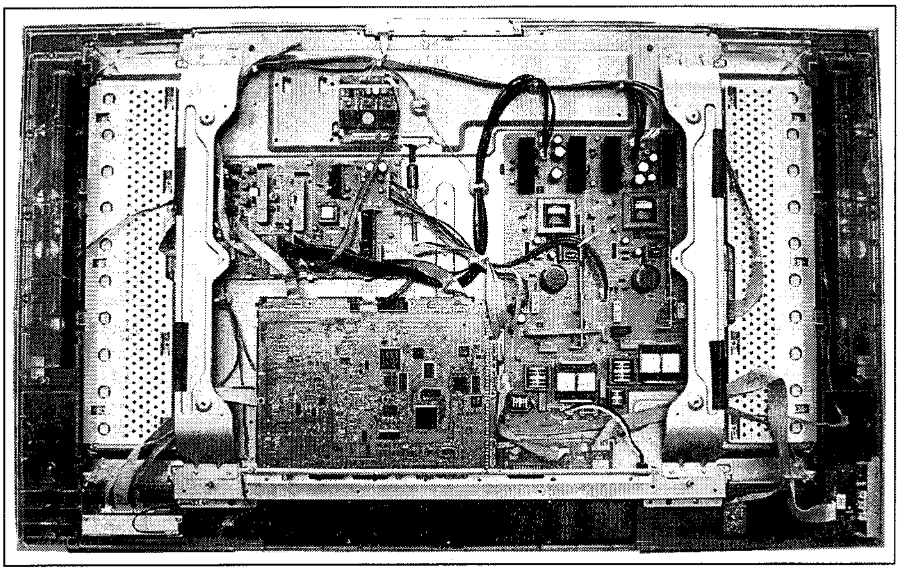

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Figure 4-1 Chassis cable dressing (FTL2.1 "Top" model)

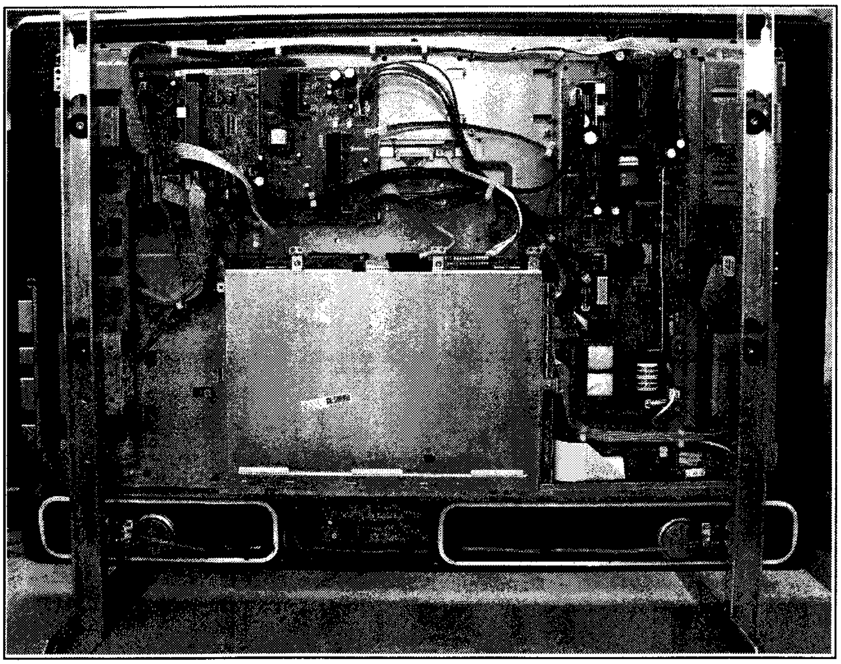

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Figure 4-2 Chassis cable dressing (FTL2.2 "Wrap" model)

4.2 Service Positions

For easy servicing of this set, there are a few possibilities created:

- The buffers from the packaging (see figure "Rear cover").
- Foam bars (created for service).
- Aluminium service stands (created for Service).

4.2.1 Foam Bars

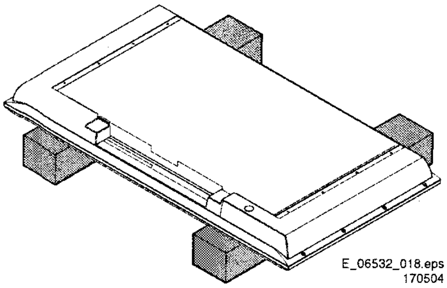

Figure 4-3 Foam bars

The foam bars (order code 3122 785 90580 for two pieces) can be used for all types and sizes of Flat TVs. By laying the TV face down on the (ESD protective) foam bars, a stable situation is created to perform measurements and alignments.
By placing a mirror under the TV, you can monitor the screen.

4.2.2 Aluminium Stands

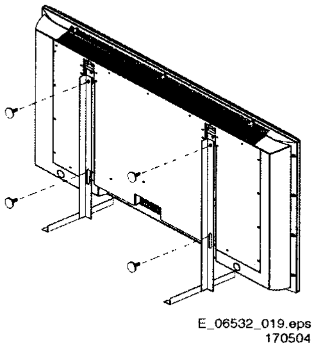

Figure 4-4 Aluminium stands (MkI)

The new MkII aluminium stands (not on drawing) with order code 3122 785 90690, can also be used to do measurements, alignments, and duration tests. The stands can be (dis)mounted quick and easy by means of sliding them in/out the "mushrooms". The new stands are backwards compatible with the earlier models.
Important: For (older) FTV sets without these "mushrooms", it is obligatory to use the provided screws, otherwise it is possible to damage the monitor inside!.

4.3 Assy/PWB Removal (for FTL2.1 "Top" sets)

4.3.1 Metal Back Plate

Caution: Disconnect the mains power cord before you remove the metal back plate.

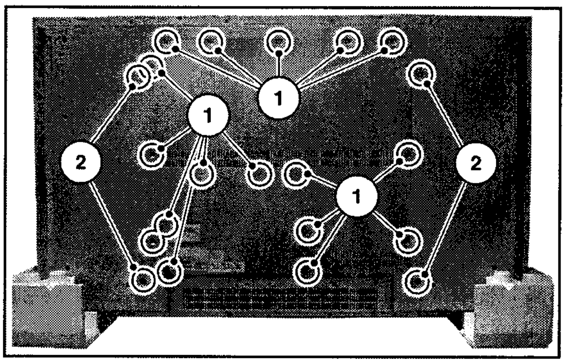

Figure 4-5 Metal back plate

1. Place the TV set upside down on a table top, using the foam bars (see part "Foam Bars").
   Caution: do **not** put pressure on the LCD display, but let the monitor lean on the speakers or the Front cover.
2. Remove all T10 parker screws (1) from the topside of the back plate.
3. Remove all T10 tapping screws (2) from the centre, bottom, and left and right sides of the back plate.
4. Lift the back plate from the set. Make sure that wires and flat foils are not damaged during the back plate removal.

4.3.2 Rear Cover

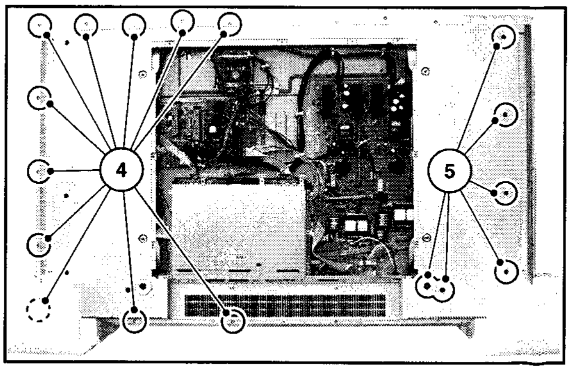

Figure 4-6 Rear cover

1. Disconnect all connectors (3) from the Ambient Light inverter panel.
2. Remove all tapping screws (4) around the edges of the rear cover (some of them are indicated on the figure above).
3. Remove all parker screws (5) from the rear cover (some of them are indicated on the figure above).
4. Lift the rear cover from the set (it hinges at the bottom side).

4.3.3 Ambient Light Panel

1. Remove all mounting screws from the Ambient Light panel.
2. Disconnect all cables from the Ambient Light panel.
3. Take out the Ambient Light panel.

4.3.4 Main Supply Panel

1. Remove all mounting screws from the Main Supply panel.
2. Disconnect all cables from the Main Supply panel.
3. Take out the Main Supply panel (it hinges at the right (speaker) side).

4.3.5 SCART3 Panel

1. Disconnect all cables from the SCART3 panel.
2. Remove the two mounting screws (7) near the SCART3 at the connector plate (see figure "Connector plate").
3. Take out the SCART3 panel.

4.3.6 Stand-by Supply / Audio Panel

1. Disconnect all cables from the Stand-by Supply / Audio panel.
2. Remove all mounting screws from the Stand-by Supply / Audio panel.
3. Take out the Stand-by Supply / Audio panel (it hinges at the bottom side).

4.3.7 Side I/O Panel

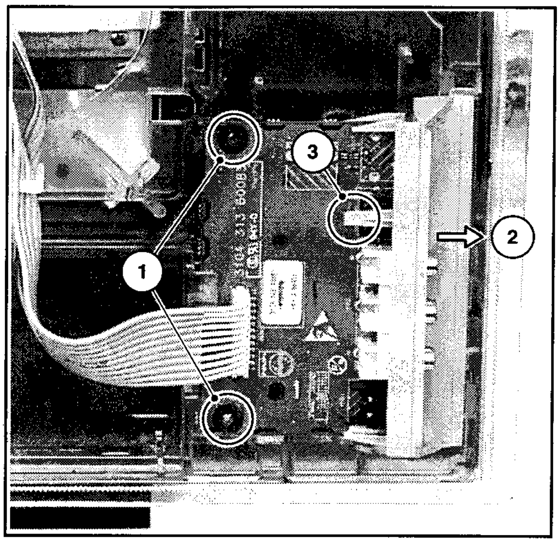

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Figure 4-7 Side I/O Panel

1. Disconnect the cable from the Side I/O panel.
2. Remove the mounting screws (1) if present.
3. Slide the Side I/O bracket to the right (2).
4. Release the clamp (3) and take out the Side I'O panel from its bracket.

4.3.8 Top Control

1. Remove the mounting screws from the Top Control panel bracket.
2. Disconnect the cable.
3. Release the clamps and take out the Top Control panel.

4.3.9 Proximity Panel

1. Remove the mounting screws.
2. Take out the Proximity panel and disconnect the cable.

4.3.10 LED / Switch Panel

1. Disconnect all cables from the LED / Switch panel.
2. Remove the mounting screws from the panel shielding and remove it.
3. Remove the mounting screws from the LED/Switch panel.
4. Take out the LED/Switch panel.

4.3.11 Small Signal Board (SSB)

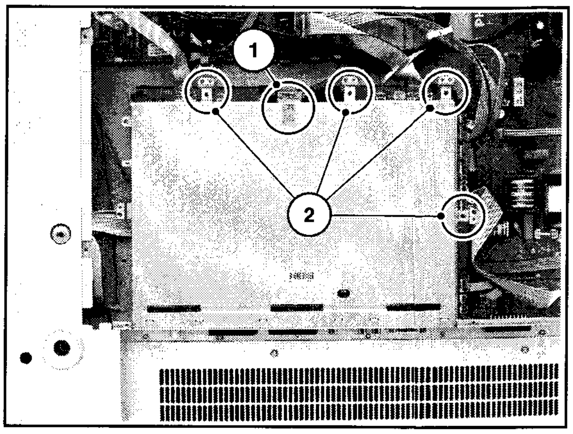

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Figure 4-8 SSB top shielding

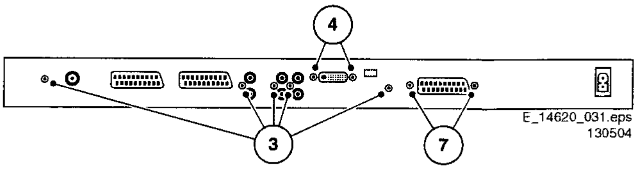

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Figure 4-9 Connector plate

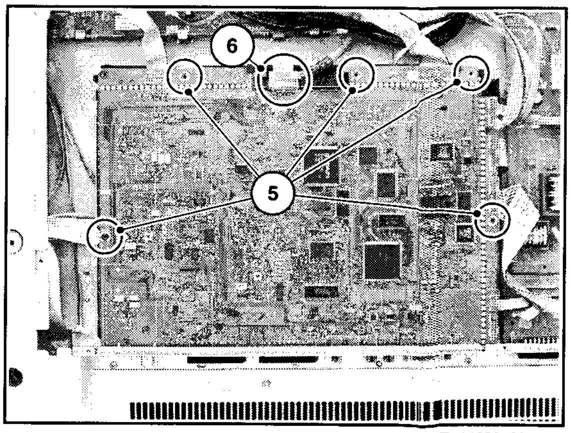

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Figure 4-10 SSB

1. Remove the LVDS fixing tape (1).
2. Remove all fixing screws (2).
3. Lift the shielding at the top. The panel hinges at the SCART side.
   Caution: do **not** damage the EMC shielding foam while you remove the shielding.
4. Remove mounting screws (3) from the connector plate. Use a 5 mm socket screwdriver to remove both DVI connector distance bolts (4).
5. Remove the mounting screws from the SSB (5).
6. Disconnect the LVDS cable (6).
7. Lift the SSB, disconnect all cables, and take out the SSB.

4.3.12 Woofer

1. Remove all mounting screws.
2. Take out the woofer unit together with its cable.
   Caution: the woofer unit must remain airtight.

4.3.13 Speakers

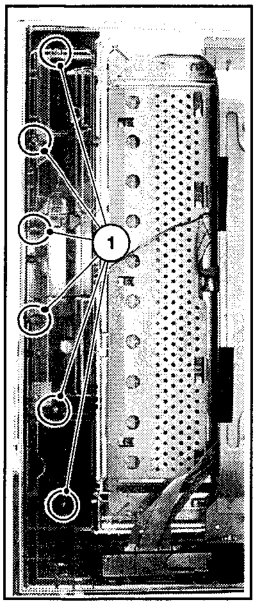

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Figure 4-11 Speaker mounting screws at the rear side

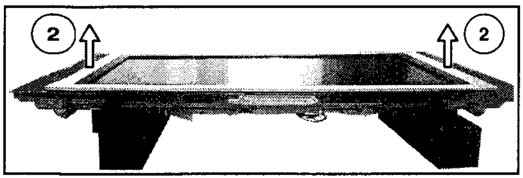

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Figure 4-12 Front cover removal

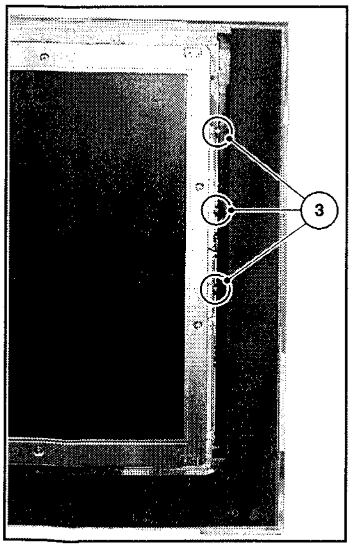

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Figure 4-13 Speaker mounting screws at the front side

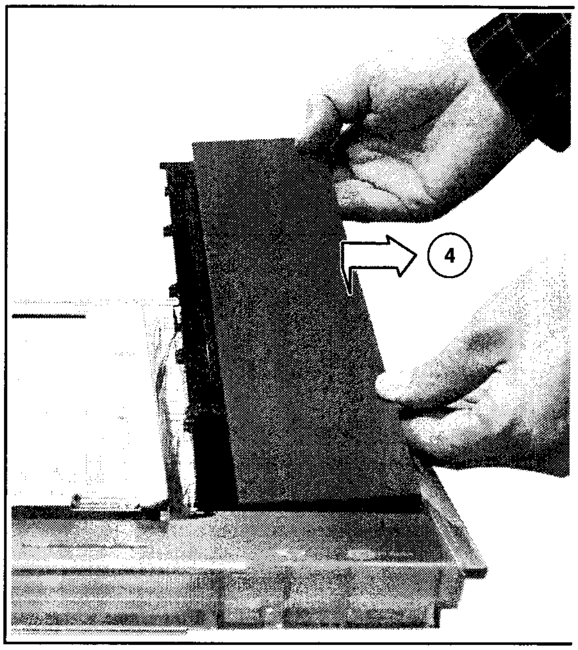

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Figure 4-14 Speaker removal

1. Remove all speakers mounting screws (1) at the rear side of the set (one screw is located under the Side I/O).
2. Flip the set over (be aware that the front cover is loose now), and remover the front cover (2).
3. Remove all speakers mounting screws (3) at the LCD side.
4. Take out the speaker unit (4).

4.3.14 LCD Panel

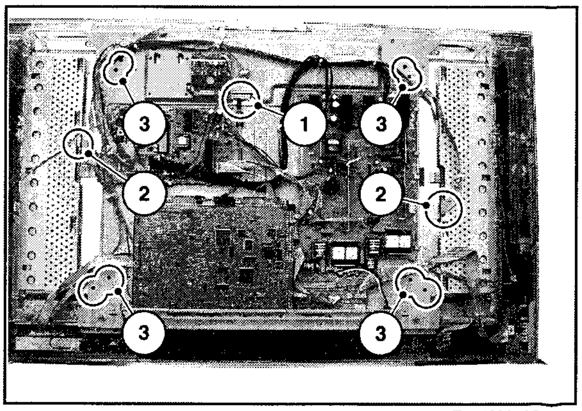

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Figure 4-15 LCD panel (photo: "Top" model)

Caution: Before you start, be sure that the foam bars support the LCD panel border, to prevent the display from falling when its mounting screws are released.

1. Remove the screws from the wall mounting brackets and remove the brackets.
2. Unplug the LVDS connector (1) at the LCD panel.
3. Unplug the backlight connectors (2).
4. Remove all mounting LCD panel screws (3).
5. Lift the plastic frame together with metal frame and PWBs from the LCD panel.

4.3.15 Ambient Lights

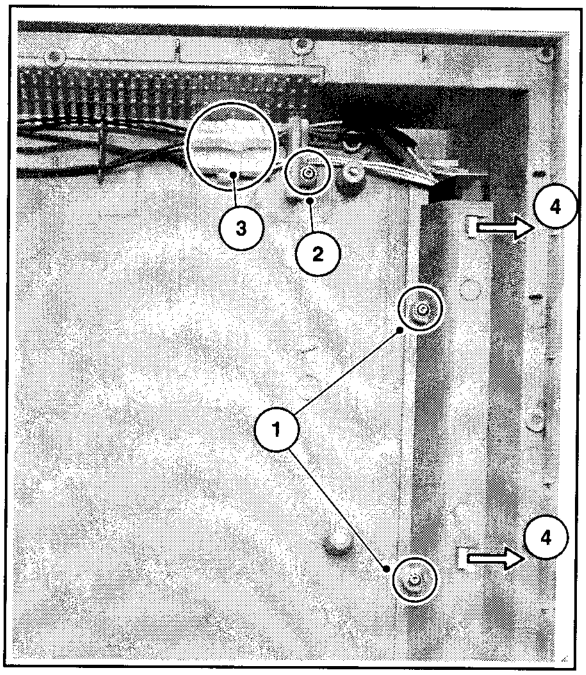

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Figure 4-16 Ambient light

Ambient lights are located in the rear cover of the set.

1. Remove all mounting Ambient lights screws (1) (some of them are shown on the Figure above).
2. Remove the screw from the cable clamp (2).
3. Unplug the cables (3).
4. Shift the Ambient light unit to the side (4) and take out the unit.

4.4 Assy/PWB Removal (for FTL2.2 "Wrap" Sets)

Note: Use figures from "Assy/PWB Removal (for FTL2.1 "Top" Sets)". Mind you that the different models can deviate slightly from each other w.r.t. the mechanical construction. Where necessary, you will find separate figures for clarification.

4.4.1 Metal Back Plate

Caution: Disconnect the AC Power (mains) cord before you remove the metal back plate.

1. Place the TV set upside down on a table top, using the foam bars (see part "Foam Bars").
   Caution: do **not** put pressure on the display, but let the monitor lean on the speakers or the Front cover.
2. Remove all T10 screws from the metal back plate.
3. Remove the four "mushrooms" (2) from the back plate.
4. Lift the back plate from the set. Make sure that wires and flat foils are not damaged during the back plate removal.

4.4.2 Rear Cover

1. Remove all T10 parker screws (2) around the edges of the rear cover.
2. Lift the rear cover from the set.

4.4.3 Main Supply Panel

1. Disconnect all cables from the Main Supply panel.
2. Remove all T10 mounting screws from the Main Supply panel.
3. Take out the Main Supply panel.

4.4.4 Ambient Light Panel

1. Remove all mounting screws from the Ambient Light panel.
2. Disconnect all cables from the Ambient Light panel.
3. Take out the Ambient Light panel.

4.4.5 SCART3 Panel

1. Disconnect all cables from the SCART3 panel.
2. Remove the two mounting screws (7) near the SCART3 at the connector plate (see figure "Connector plate").
3. Take out the SCART3 panel.

4.4.6 Stand-by Supply/Audio Panel

1. Disconnect all cables from the Stand-by Supply/Audio panel.
2. Remove all T10 mounting screws from the Stand-by Supply/Audio panel.
3. Take out the Stand-by Supply/Audio panel (it hinges at the bottom side).

4.4.7 Side I/O Panel

1. Disconnect the cable(s) from the panel.
2. Remove the T10 mounting screws that hold the assy.
3. Release the clamps and take out the panel from its bracket.

4.4.8 Top/Side Control

1. Disconnect the cable(s) from the panel.
2. Remove the T10 mounting screws that hold the assy.
3. Release the clamps and take out the panel from its bracket.

4.4.9 LED Panel

1. Disconnect the cable(s) from the panel.

2. Remove the T10 mounting screws that hold the panel.
3. Take out the panel.

4.4.10 Speakers

1. After removal of the rear cover, you can access the speakers.
   Note: In the rear cover itself, two additional "passive" speakers are mounted.
2. Be sure that the foam that makes the unit airtight is not damaged. Otherwise, replace it.

4.4.11 SSB

1. Remove the LVDS fixing tape (1).
2. Remove all fixing screws (2).
3. Lift the shielding at the top and shift it upwards. The shielding clamps at the connector side.
   Caution: Be careful not to damage the EMC shielding foam while you remove the shielding.
4. Remove all connector fixation screws from the connector plate.
5. Remove the mounting screws from the SSB (5).
6. Disconnect the LVDS cable (6).
7. Lift the SSB, disconnect all cables, and take out the SSB.

4.4.12 LCD Panel

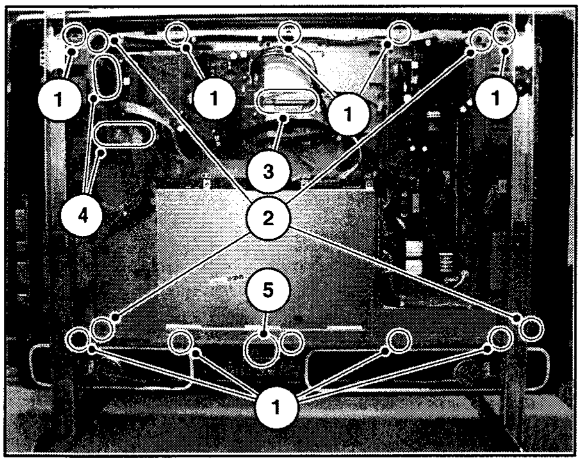

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Figure 4-17 LCD panel (photo: "Wrap" model)

Caution: Before you start, be sure that the foam bars support the LCD panel border, to prevent the display from falling when its mounting screws are released.

1. Remove the T10 screws (1) from the mounting frame.
2. Remove all mounting LCD panel screws (2).
3. **Important:** Unplug the LVDS connector (3) at the LCD panel. **Be careful**, as this is a very fragile connector!
4. Unplug the backlight and loudspeaker connectors (4).
5. Lift the metal frame (together with all PWBs) from the LCD panel. During lift, free the backlight and speaker cables.
6. After removal of the frame, you can lift the LCD display from the set.

4.5 Set Re-assembly

To re-assemble the whole set, execute all processes in reverse order.

Note: While re-assembling, make sure, that all cables are placed and connected in their original position

5. Service Modes, Error Codes, and Fault Finding

Index of this chapter:

5.1 Test Points
5.2 Service Modes
5.3 Problems and Solving Tips (related to CSM)
5.4 ComPair
5.5 Error Codes
5.6 The Blinking LED Procedure
5.7 Protections
5.8 Repair tips
5.9 Software Downloading

5.1 Test Points

The chassis is equipped with test points printed on the circuit board assemblies.

Perform measurements under the following conditions:

- Service Default Mode.
- Video: colour bar signal.
- Audio: 3 kHz left, 1 kHz right.

5.2 Service Modes

Service Default Mode (SDM) and Service Alignment Mode (SAM) offer several features for the service technician, while the Customer Service Mode (CSM) is used for communication between a Philips Customer Care Centre (P3C) and a customer.

There is also the option of using ComPair, a hardware interface between a computer (see requirements below) and the TV chassis. It offers the ability of structured troubleshooting, test pattern generation, error code reading, software version read-out, and software upgrading.
Minimum requirements: a Pentium processor, Windows 95/98, and a CD-ROM drive (see also paragraph "ComPair").

5.2.1 Service Default Mode (SDM)

Purpose

- To create a pre-defined setting, to get the same measurement results as given in this manual.
- To override SW protections.
- To start the blinking LED procedure.

Specifications

Table 5-1 SDM default settings

Region	Freq. (MHz)	Default system
Europe, AP-PAL/Multi	475.25	PAL B/G
NAFTA, AP-NTSC, LATAM	61.25 (ch. 3)	NTSC M

- All picture settings at 50% (brightness, colour, contrast).
- All sound settings at 50%, except volume at 25%.
- All service-unfriendly modes (if present) are disabled, like:
  - (Sleep) timer.
  - Child/parental lock.
  - Blue mute.
  - Automatic volume limiter (AVL).
  - Auto switch-off (when no video signal was received for 10 minutes).
  - Skip/blank of non-favourite pre-sets.
  - Smart modes.
  - Auto store of personal presets.
  - Auto user menu time-out.

How to activate SDM

Use one of the following methods:

- Use the standard RC-transmitter and key in the code **"062596"**, directly followed by the "MENU" button.
  Note: It is possible that, together with the SDM, the main menu will appear. To switch it off, push the "MENU" button again.

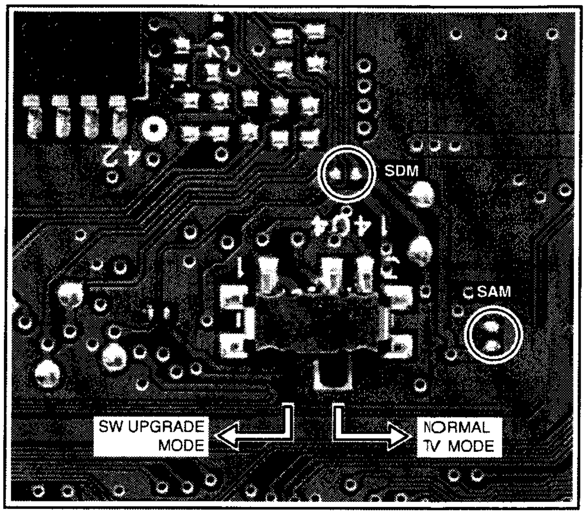

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Figure 5-1 Service pads

- Short for a moment the two solder pads on the SSB, with the indication "SDM". Activation can be performed in all modes, except when the set has a problem with the main microprocessor.
  Caution: If the SDM is activated via the pins, all the software-controlled protections are de-activated.
- Use the DST-emulation feature of ComPair.
- Use the "DEFAULT" button on the Dealer Service Tool (RC7150).

After activating this mode, "SDM" will appear in the upper right corner of the screen.

How to navigate

When you press the "MENU" button on the RC transmitter, the set will toggle between the SDM and the normal user menu (with the SDM mode still active in the background).

How to exit SDM

Use one of the following methods:

- Switch the set to STANDBY via the RC-transmitter.
- Press the "EXIT" button on the DST.
- Via a standard customer RC-transmitter: key in "00"-sequence.

5.2.2 Service Alignment Mode (SAM)

Purpose

- To perform (software) alignments.
- To change option settings.
- To easily identify the used software version.
- To view operation hours.
- To display (or clear) the error code buffer.

Specifications

- Operation hours counter.
- Software version.
- Option settings.

- Error buffer reading and erasing.
- Software alignments.

How to activate SAM

Use one of the following methods:

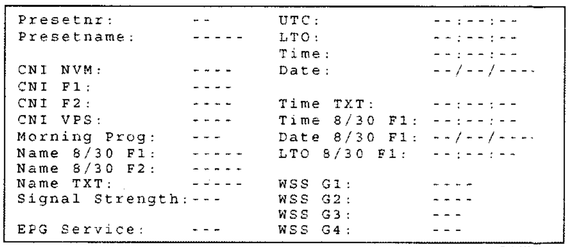
- Via a standard RC transmitter: key in the code **"062596"** directly followed by the "OSD [i+]" button. After activating SAM with this method a service warning will appear on the screen, you can continue by pressing any digit key on the RC.
- Short for a moment the two solder pads on the SSB with the indication "SAM". Depending on the software version, it is possible that a service warning will appear. You can continue by pressing any digit key on the RC.
- Use the DST-emulation feature of ComPair.
- Press the ALIGN button on the DST while the set is in the normal operation

After activating this mode, "SAM" will appear in the upper right corner of the screen.

Contents of SAM:

- **OPERATION HOURS.** Displays the accumulated total of operation hours (not the stand-by hours).
- **HARDWARE INFO.**
  - **ROM VERSION.** Displays the date of the software and the software version of the ROM (**example:** TX21EU_1.0_01234 = AAAABB_X.Y_NNNNN).
    - **AAAA**= the chassis name.
    - **BB**= the region: EU= Europe, AP= Asia Pacific PAL/Multi, AN= Asia Pacific NTSC, US= USA, LT= LATAM.
    - **X.Y**= the software version, where X is the main version number (different numbers are not compatible with one another) and Y is the sub version number (a higher number is always compatible with a lower number).
    - **NNNNN**= last five digits of 12nc code software.
  - **FBX Version.** Displays the software version of the FBX
  - **SW VERSION EPLD**. Displays the software version of the EPLD.
- **ERRORS.** (followed by maximal 10 errors). The most recent error is displayed at the upper left (for an error explanation see paragraph "Error Codes").
- **DEFECTIVE MODULE.** Here the module that generates the error is displayed. If there are multiple errors in the buffer, which are not all generated by a single module, there is probably another defect. It will then display the message "UNKNOWN" here.
- **RESET ERROR BUFFER.** When you press the "OK" button, the error buffer is reset.
- **ALIGNMENTS.** This will activate the "ALIGNMENTS" sub-menu.
- **DEALER OPTIONS.** Extra features for the dealers.
- **SERVICE OPTIONS.** Extra features for Service.
- **INITIALISE NVM.** When an NVM was corrupted (or replaced) in the former EM3 chassis, the microprocessor replaced the content with default data (to assure that the set can operate). However, all pre-sets and alignment values are gone now, and option numbers are not correct. Therefore, this was a very drastic way. In this chassis, the procedure is implemented in another way: The moment the processor recognises a corrupted NVM, the "initialise NVM" line will be highlighted. Now, you can do two things (dependent of the service instructions at that moment):
  - Save the content of the NVM via ComPair for development analysis, **before** initialising. This will give the Philips Service department an extra possibility for diagnosis (e.g. when Development asks for this).
  - Initialise the NVM (same as in the past, however now it happens conscious).
- **STORE.** All options and alignments are stored when pressing the "OK"-button
- **FUNCTIONAL TEST.** All devices are tested via the "OK" button. Eventual errors are displayed in the error buffer. The error buffer is not erased, the content returns when this test is terminated.
- **DAILY MENUS.** With the "OK" button, you can go to the normal user menu. SAM is still active in the background. With the "MENU" button, you return from the user menu to SAM menu. This feature can be helpful to quickly change some settings in the user menu.
- **SW MAINTENANCE.**
  - **UPGRADE.** More info see paragraph Software downloading.
  - **EVENTS.** Not useful for Service purposes. In case of specific software problems, the development department can ask for this info.
  - **BDM INFO.** Broadcast Debug Menu info. The purpose of this menu is to debug the broadcast, **not** the TV. The menu gives an overview of what is received on the current preset.

Following items are displayed:



```
Presetnr:           --        UTC:              --:--:--
Presetname:         -----     LTO:              --:--:--
                              Time:             --:--:--
CNI NVM:            ----      Date:             --/--/----
CNI F1:             ----
CNI F2:             ----      Time TXT:         --:--:--
CNI VPS:            ----      Time 8/30 F1:     --:--:--
Morning Prog:       ---       Date 8/30 F1:     --/--/----
Name 8/30 F1:       -----     LTO 8/30 F1:      --:--:--
Name 8/30 F2:       -----
Name TXT:           -----     WSS G1:           ----
Signal Strength:---           WSS G2:           ----
                              WSS G3:           ---
EPG Service:        ---       WSS G4:           ---
```

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Figure 5-2 Broadcast debug menu overview.

Table 5-2 Broadcast debug menu explanation

Item	Source	Description
Presetnr	Set	Preset number of the current selected preset
Presetname	Set	Preset name of the current selected preset.
CNI NVM	Broadcaster	CNI number stored in NVM for the current preset.
CNI F1	Broadcaster	CNI number from transmitted Packet 8/30 Format 1.
CNI F2	Broadcaster	CNI number from transmitted Packet 8/30 Format 2.
CNI VPS	Broadcaster	CNI number from transmitted VPS line.
Morning Prog	Broadcaster	"ARD" or "ZDF" according to dedicated bit in 8/30 Format 1.
Name 8/30 F1	Broadcaster	Name extracted from status message of 8/30 Format 1.
Name 8/30 F2	Broadcaster	Name extracted from status message of 8/30 Format 2.
Name TXT	Broadcaster	Name extracted from TXT header.
Signal Strength	FBX	Noise figure measured for selected preset.
EPG Service	Set	EPG Service stored in NVM for current preset displayed as "TXT", "MCP", "SCP", "OCP".
UTC	Set	UTC (Universal Time Code formerly known as Greenwich Mean Time) used in the set.
LTO	Set	LTO (Local Time Offset) used in the set. Used by EPG for all Nextview displays. (= Time TXT header - Time 8/30 F1)
Time	Set	Current time running in the set. Was extracted at start-up, then maintained by software.
Date	Set	Current date running in the set. Was extracted at start-up, then maintained by software.
Time TXT	Broadcaster	TXT header time from the selected preset.
Time 8/30 F1	Broadcaster	UTC time from 8/30 Format 1.
Date 8/30 F1	Broadcaster	Date from 8/30 Format 1.
LTO 8/30 F1	Broadcaster	LTO from 8/30 Format 1.
WSS G1	Broadcaster	WSS Group 1 (Aspect Ratio) bits 0 1 2 3
WSS G2	Broadcaster	WSS Group 2 (Enhanced Services) bits 4 5 6 7
WSS G3	Broadcaster	WSS Group 3 (Subtitles) bits 8 9 10
WSS G4	Broadcaster	WSS Group 4 (Reserved) bits 11 12 13

How to navigate

- In SAM, you can select the menu items with the "CURSOR UP/DOWN" key on the RC-transmitter. The selected item will be highlighted. When not all menu items fit on the screen, move the "CURSOR UP/DOWN" key to display the next/previous menu items.
- With the "CURSOR LEFT/RIGHT" keys, it is possible to:
  - (De) activate the selected menu item.
  - Change the value of the selected menu item.
  - Activate the selected submenu.

How to exit SAM

Use one of the following methods:

- Press the "MENU" button on the RC-transmitter, or
- Switch the set to STANDBY via the RC-transmitter, or
- Press the "EXIT" button on the DST.

5.2.3 Customer Service Mode (CSM)

Purpose

When a customer is having problems with his TV-set, he can call his dealer. The service technician can than ask the customer to activate the CSM, in order to identify the status of the set. Now, the service technician can judge the severity of the complaint. In many cases, he can advise the customer how to solve the problem, or he can decide if it is necessary to visit the customer.
The CSM is a read only mode; therefore, modifications in this mode are not possible.

How to activate CSM

Use one of the following methods:

- Press the "MUTE" button on the RC-transmitter **simultaneously** with the "MENU" button on the TV (top control) for at least 4 seconds.
- Key in the code **"123654"** via the standard RC transmitter.

Note: Activation of the CSM is only possible if there is no (user) menu on the screen!

How to navigate

By means of the "CURSOR-DOWN/UP" knob on the RC-transmitter, you can navigate through the menus.

Contents of CSM

CUSTOMER SERVICE MENU 1

- **SOFTWARE VERSION (example: TX21EU_1.0_01234).** Displays the built-in software version. In case of field problems related to software, software can be upgraded (for more details, see paragraph Software downloading). You will find details of the software versions in the chapter "Software Survey" of the "Product Survey - Colour Television" publication. This publication is generated four times a year.
- **FEATURE BOX**. The 12NC-number of the built-in Feature Box software.
- **SET TYPE.** This information is very helpful for a help desk/ workshop as reference for further diagnosis. In this way, it is not necessary for the customer to look at the rear of the TV-set.
- **CODE 1.** Gives the latest five errors of the error buffer. As soon as the built-in diagnose software has detected an error the buffer is adapted. The last occurred error is displayed on the leftmost position. Each error code is displayed as a 3-digit number. When less than 10 errors occur, the rest of the buffer is empty (000). See also paragraph Error Codes for a description.
- **CODE 2.** Gives the first five errors of the error buffer. See also paragraph Error Codes for a description.
- **VOLUME.** Gives the last status of the volume as set by the customer. The value can vary from 0 (volume is minimum) to 100 (volume is maximum). Volume values can be changed via the volume key on the RC-transmitter.
- **BRIGHTNESS.** Gives the last status of the brightness as set by the customer. The value can vary from 0 (brightness is minimum) to 100 (brightness is maximum). Brightness values can be changed via the "CURSOR LEFT" and "CURSOR RIGHT" keys on the RC-transmitter after pressing the "MENU" button and selecting "PICTURE" and "BRIGHTNESS".
- **CONTRAST.** Gives the last status of the contrast as set by the customer. The value can vary from 0 (contrast is minimum) to 100 (contrast is maximum). Contrast values can be changed via "CURSOR LEFT" and "CURSOR RIGHT" keys on the RC-transmitter after pressing the "MENU" button and selecting "PICTURE" and "CONTRAST".
- **COLOUR.** Gives the last status of the colour saturation, as set by the customer. The value can vary from 0 (colour is minimum) to 100 (colour is maximum). Colour values can be changed via "CURSOR LEFT" and "CURSOR RIGHT" keys on the RC-transmitter after pressing the "MENU" button and selecting "PICTURE" and "COLOUR".
- **HUE.** Only relevant for NTSC-signals (e.g. some NTSC-DVD-discs).

CUSTOMER SERVICE MENU 2

- **SHARPNESS.** Gives the sharpness value. The value can vary from 0 (sharpness is minimum) to 7 (sharpness is maximum). In case of bad antenna signals, a too high value of the sharpness can result in a noisy picture. Sharpness values can be changed via the "CURSOR LEFT" and "CURSOR RIGHT" keys on the RC-transmitter after pressing the "MENU" button and selecting "PICTURE" and "SHARPNESS".
- **HEADPHONE VOLUME.** Gives the last status of the headphone volume, as set by the customer. The value can vary from 0 (volume is minimum) to 100 (volume is maximum). Headphone volume values can be changed via the "CURSOR LEFT" and "CURSOR RIGHT" keys on the RC-transmitter after pressing the "MENU" button and selecting "SOUND" and "HEADPHONE VOLUME".
- **DOLBY.** Indicates whether the received transmitter transmits Dolby sound ("ON") or not ("OFF"). Attention: The presence of Dolby can only be tested by the software on the Dolby Signalling bit. If a Dolby transmission is received without a Dolby Signalling bit, this indicator will show "OFF" even though a Dolby transmission is received.
- **SURROUND MODE.** Indicates the by the customer selected surround mode (or automatically chosen mode). Possible values are "OFF", "INCREDIBLE SURROUND" OR "DOLBY VIRTUAL". These settings can be influenced after pressing the "MENU" button and selecting "SOUND" and SURROUND MODE". It can also have been selected automatically by signalling bits (internal software).
- **TUNER FREQUENCY.** Indicates the frequency the selected transmitter is tuned to. The tuner frequency can be changed via the "CURSOR LEFT" and "CURSOR RIGHT" keys for fine tune after opening the installation menu and selecting "INSTALL" and "MANUAL INSTALL".
- **DIGITAL OPTION.** Gives the selected digital mode, "PROGRESSIVE SCAN", "MOVIE PLUS" or "PIXEL PLUS". Change via "MENU", "PICTURE", "DIGITAL OPTIONS".
- **CENTRE TRIM.** Not applicable for this set.
- **TV SYSTEM.** Gives information about the video system of the selected transmitter.
  - BG: PAL BG signal received.
  - DK: PAL DK signal received.
  - I: PAL I signal received.
  - L/La: SECAM L/La signals received.
  - M: NTSC M signal received with video carrier on 38.9 MHz.

CUSTOMER SERVICE MENU 3

- **BALANCE.** Indicates the balance settings, between "-50" and "+50". Change via "MENU", "SOUND", and "BALANCE". Not applicable for Dolby Pro Logic sets.
- **CENTRE MODE.** Indicates if centre mode is set "ON" or "OFF". When centre mode is on, all TV speakers are used as one centre speaker. Change Centre mode via "MENU", "SETUP", "SPEAKERS", and "CENTRE MODE".
- **DNR.** Gives the selected DNR setting (Dynamic Noise Reduction), "OFF", "MINIMUM", "MEDIUM", or "MAXIMUM". Change via "MENU", "PICTURE", "DNR"
- **NOISE FIGURE.** Gives the noise ratio for the selected transmitter. This value can vary from 0 (good signal) to 127 (average signal) and to 255 (bad signal). For some software versions, the noise figure will only be valid when "Active Control" is set to "medium" or "maximum".
- **SOURCE.** Indicates which source is used and the video/audio signal quality of the selected source. (**Example:** Tuner, Video/NICAM) Source: "TUNER", "EXT1", "EXT2", "EXT3", "EXT4", "SIDE", "AV1", "AV2", "AV3" or "AV4". Video signal quality: "VIDEO", "S-VIDEO", "RGB 1FH", "YPBPR 1FH 480P", "YPBPR 1FH 576P", "YPBPR 1FH 1080I", "YPBPR 2FH 480P", "YPBPR 2FH 576P", "YPBPR 2FH 1080I", "RGB 2FH 480P", "RGB 2FH 576P" or "RGB 2FH 1080I". Audio signal quality: "STEREO", "SPDIF 1", "SPDIF 2", or "SPDIF".
- **AUDIO SYSTEM.** Gives information about the audio system of the selected transmitter: "ANALOGUE MONO", "ANALOGUE STEREO", "PCM 2/0", "DD 1/0", "DD 2/0 LtRt", "DD 2/0 LORO", "DD 2/1", "DD 2/2", "DD 3/0", "DD 3/1", "DD 3/2", "DD 1+1", "MPEG 1/0", "MPEG 2/0", "MPEG 2/0 LtRt", "MPEG 2/1", "MPEG 2/2", "MPEG 3/0", "MPEG 3/1", "MPEG 3/2", "MPEG 1+1" or "MPEG 2+2".
- **TUNED BIT.** Gives information about the tuning method of the stored pre-set. If a channel is found via "automatic installation", you will see the value "YES". When you change this (automatically found) frequency via "fine tune" adjustment (installation menu - manual installation), the displayed value will change to "NO". Therefore, when you see the value "NO" in this line, it is an indication that the received channel is a non-standard signal (e.g. of a VCR).
- **SURROUND SPEAKERS.** Not applicable in this set.
- **ON TIMER.** Indicates if the "On Timer" is set "ON" or "OFF" and if the timer is "ON" also displays start time, start day and program number. Change via "MENU", "TV", "FEATURES", and "ON TIMER".
- **PRESET LOCK.** Indicates if the selected preset has a child lock: "LOCKED" or "UNLOCKED". Change via "MENU", "TV", "FEATURES", "CHILD LOCK", and "CUSTOM LOCK".

CUSTOMER SERVICE MENU 4

- **CHILD LOCK.** Indicates the last status of the general child lock: "UNLOCK", "LOCK", or "CUSTOM LOCK". Change via "MENU", "TV", "FEATURES", "CHILD LOCK", and "LOCK".
- **AGE LOCK.** Indicates the last status of the EPG rating for child lock: "OFF", "4 YEARS", "6 YEARS", "8 YEARS", "10 YEARS", "12 YEARS", "14 YEARS" or "16 YEARS". This is only displayed if child lock is set to "CUSTOM LOCK"
- **LOCK AFTER.** Indicates at what time the child lock is set: "OFF" or e.g. "18:45" (lock time). This is only displayed if child lock is set to "CUSTOM LOCK"
- **CATEGORY LOCK.** Indicates the last status of the EPG theme childlock: "MOVIES", "NEWS", "SHOWS", "SPORTS", "CHILDREN", "MUSIC", "CULTURE", or "SERIES". This is only displayed if child lock is set to "CUSTOM LOCK". It is possible that more than one value is shown.
- **PROGRAM CATEGORY.** Indicates the theme of the selected transmitter: "MOVIES", "NEWS", "SHOWS", "SPORTS", "CHILDREN", "MUSIC", "CULTURE", or "SERIES".
- **TV RATINGS LOCK.** Only applicable for US.
- **MOVIE RATINGS LOCK.** Only applicable for US.
- **V-CHIP TV STATUS.** Only applicable for US.

CUSTOMER SERVICE MENU 5

- **V-CHIP MOVIE STATUS.** Only applicable for US.
- **OPTIONS 1.** Gives the option codes of option group 1 as set in SAM (Service Alignment Mode).
- **OPTIONS 2.** Gives the option codes of option group 2 as set in SAM (Service Alignment Mode).
- **AVL.** Indicates the last status of AVL (Automatic Volume Level): "ON" or "OFF". Change via "MENU", "TV", "SOUND", "AVL"
- **DELTA VOLUME.** Indicates the last status of the delta volume for the selected preset as set by the customer: from "-12" to "+12". Change via "MENU", "TV", "SOUND", "DELTA VOLUME".
- **FRONT SPKR DIST.** Not applicable for this set.
- **FRONT SPKR DIST.** Not applicable for this set.

How to exit CSM

Use one of the following methods:

- After you press a key on the RC-transmitter (with exception of the "CHANNEL", "VOLUME" and digit (0-9) keys), or
- After you switch the TV-set "OFF" with the mains switch.

5.3 Problems and Solving Tips (related to CSM)

Note: Below described problems are all related to the TV settings (visible in the CSM menu). The procedures to change the value (or status) of the different settings are described above. New value(s) are automatically stored.

5.3.1 Picture Problems

Snowy/noisy picture

1. Check in CSM line NOISE FIGURE. In case the value is "127" or higher, and the value is also high on other programs, check the aerial cable/aerial system. For some software versions, the noise figure will only be valid when "Active Control" is set to "medium" or "maximum".
2. Check in CSM lines SHARPNESS and NOISE FIGURE. In case the value of line SHARPNESS is "3" or "4" and the value of line NOISE FIGURE is high ("127" or higher), decrease the "Sharpness" value.

Picture too dark

1. Press "Menu", "TV", "Picture", "Smart Picture". In case the picture improves, increase the "Brightness" or the "Contrast" value. The new value(s) are automatically stored (in "personal" pre-set) for all TV channels.
2. Check in CSM line BRIGHTNESS and CONTRAST. If the value of these lines is low (< "10"), increase the "Brightness" or the "Contrast" value via the user menu.

Picture too bright

1. Press "Menu", "TV", "Picture", "Smart Picture". In case the picture improves, decrease the "Brightness" or the "Contrast" value. The new value(s) are automatically stored (in "personal" pre-set) for all TV channels.
2. Check in CSM lines BRIGHTNESS and CONTRAST. If the value of these line is high (> 50), decrease the "Brightness" value or increase the "Contrast" value via the user menu.

White line around picture elements and text

1. Press "Menu", "TV", "Picture", "Smart Picture". In case the picture improves, decrease the "Sharpness" value. The new value is automatically stored (in "personal" pre-set) for all TV channels.
2. Check in CSM line "Sharpness". If the value is high, decrease it. The new value is automatically stored for all TV channels.

No picture
Check in CSM line TUNED BIT. In case the value is "No", install the required program again. Open the installation menu and perform manual installation.

No picture
No proper signal is received. Check the aerial cable/aerial system.

No picture or unstable picture
A scrambled or decoded signal is received.

Black and white picture
Check in CSM line COLOUR. In case the value is low (< "10"), increase the "Colour" value via the user menu. The new value is automatically stored for all TV channels.

No colours/colour lines around picture elements or colours not correct or unstable picture
1. Check in CSM line TV SYSTEM. If a "strange" system pops up, something has gone wrong during installation. Re-install the channel.
2. If in CSM line TV SYSTEM is "L", the installed system for this pre-set is "France", while "West Europe" is required. Install the required program again: open the installation menu and perform manual installation. Select system "West Europe".

Menu text not sharp enough
1. Press "MENU", "TV", "PICTURE", "SMART PICTURE". In case picture improves, decrease the contrast value. The new value(s) are automatically stored for all TV channels.
2. Check line "Contrast". If the value is high, decrease the contrast value.

5.3.2 Sound Problems

No sound from left and right speaker
Check line 6 "Volume". The value is low. Increase the value of "Volume". The new value(s) are automatically stored (in "personal" pre-set) for all TV channels.

5.4 ComPair

5.4.1 Introduction

ComPair (Computer Aided Repair) is a service tool for Philips Consumer Electronics products. ComPair is a further development on the European DST (service remote control), which allows faster and more accurate diagnostics. ComPair has three big advantages:
- ComPair helps you to quickly get an understanding on how to repair the chassis in a short time by guiding you systematically through the repair procedures.
- ComPair allows very detailed diagnostics (on I^2C level) and is therefore capable of accurately indicating problem areas. You do not have to know anything about I^2C commands yourself because ComPair takes care of this.
- ComPair speeds up the repair time since it can automatically communicate with the chassis (when the microprocessor is working) and all repair information is directly available. When ComPair is installed together with the SearchMan electronic manual of the defective chassis, schematics and PWBs are only a mouse click away.

5.4.2 Specifications

ComPair consists of a Windows based fault finding program and an interface box between PC and the (defective) product. The ComPair interface box is connected to the PC via a serial or RS232 cable.

For this chassis, the ComPair interface box and the TV communicate via a bi-directional service cable via the service connector.

The ComPair fault finding program is able to determine the problem of the defective television. ComPair can gather diagnostic information in two ways:
- Automatic (by communication with the television): ComPair can automatically read out the contents of the entire error buffer. Diagnosis is done on I^2C level. ComPair can access the I^2C bus of the television. ComPair can send and receive I^2C commands to the micro controller of the television. In this way, it is possible for ComPair to communicate (read and write) to devices on the I^2C buses of the TV-set.
- Manually (by asking questions to you): Automatic diagnosis is only possible if the micro controller of the television is working correctly and only to a certain extends. When this is not the case, ComPair will guide you through the fault finding tree by asking you questions (e.g. *Does the screen give a picture? Click on the correct answer: YES / NO*) and showing you examples (e.g. *Measure test-point I7 and click on the correct oscillogram you see on the oscilloscope*). You can answer by clicking on a link (e.g. text or a waveform picture) that will bring you to the next step in the fault finding process.

By a combination of automatic diagnostics and an interactive question / answer procedure, ComPair will enable you to find most problems in a fast and effective way.

Beside fault finding, ComPair provides some **additional features** like:
- Up- or downloading of pre-sets.
- Managing of pre-set lists.
- Emulation of the Dealer Service Tool (DST).
- If both ComPair and SearchMan (Electronic Service Manual) are installed, all the schematics and the PWBs of the set are available by clicking on the appropriate hyperlink.
  Example: *Measure the DC-voltage on capacitor C2568 (Schematic/Panel) at the Mono-carrier.*
  - Click on the "Panel" hyperlink to automatically show the PWB with a highlighted capacitor C2568.
  - Click on the "Schematic" hyperlink to automatically show the position of the highlighted capacitor.

5.4.3 Stepwise Start-up

Under normal circumstances, a fault in the power supply, or an error during start-up, will switch the television to protection mode. ComPair can take over the initialisation of the television. In this way, it is possible to distinguish which part of the start-up routine (hence which circuitry) is causing the problem. Take notice that the transition between two steps can take some time, so give the set some time to reach a stable state. During the transition time, the LED can blink strangely.

Stepwise start- up explanation
This is realised via ComPair and is very helpful when a **protection** is activated (see also chapter "Protections"). The following diagram shows the start-up procedure of the set. Every step of the stepwise start-up (also called trapped start-up) in the diagram corresponds with the number of times the led blinks.

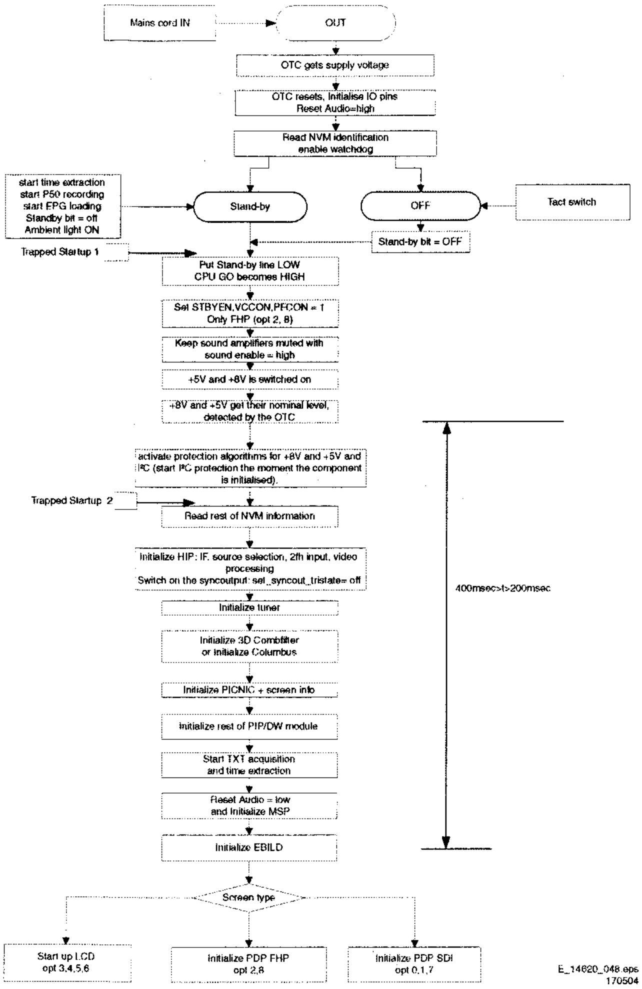

Mains cord IN
OUT
OTC gets supply voltage
OTC resets, Initialise IO pins
Reset Audio=high
Read NVM identification
enable watchdog
start time extraction
start P50 recording
start EPG loading
Standby bit = off
Ambient light ON
Stand-by
OFF
Tact switch
Stand-by bit = OFF
Trapped Startup 1
Put Stand-by line LOW
CPU GO becomes HIGH
Set STBYEN,VCCON,PFCON = 1
Only FHP (opt 2, 8)
Keep sound amplifiers muted with
sound enable = high
+5V and +8V is switched on
+8V and +5V get their nominal level,
detected by the OTC
activate protection algorithms for +8V and +5V and
I²C (start I²C protection the moment the component
is initialised).
Trapped Startup 2
Read rest of NVM information
Initialize HIP: IF. source selection, 2fh input, video
processing
Switch on the syncoutput: set_syncout_tristate= off
Initialize tuner
Initialize 3D Combfilter
or Initialize Columbus
Initialize PICNIC + screen info
Initialize rest of PIP/DW module
Start TXT acquisition
and time extraction
Reset Audio = low
and Initialize MSP
Initialize EBILD
400msec>t>200msec
Screen type
Start up LCD
opt 3,4,5,6
Initialize PDP FHP
opt 2,8
Initialize PDP SDI
opt 0,1,7
E_14620_048.eps
170504

Figure 5-3 Stepwise start-up part 1

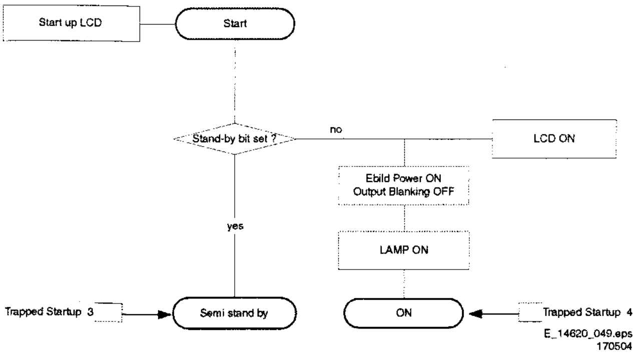

Start up LCD
Start
Stand-by bit set ?
no
LCD ON
Ebild Power ON
Output Blanking OFF
yes
LAMP ON
Trapped Startup 3
Semi stand by
ON
Trapped Startup 4
E_14620_049.eps
170504

Figure 5-4 Stepwise start-up part 2

Note (*):

- When the set is in stepwise mode and, due to stepping-up, a protection is activated, the set will really go into protection (blinking LED). The set will not leave the stepwise-mode however. If state X is the state where the set went to protection, stepwise start-up will return to state X-1. At state (X-1) diagnostic measurements can be performed. Also, in the short time the set is in state X but not yet in protection, you can also do some measurements.

5.4.4 How To Connect

This is described in the chassis fault finding database in ComPair.

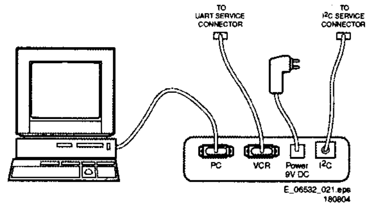

TO
UART SERVICE
CONNECTOR
TO
I²C SERVICE
CONNECTOR
PC
VCR
Power
9V DC
I²C
E_06532_021.eps
180804

Figure 5-5 ComPair interface connection

5.4.5 How To Order

ComPair order codes (EU/AP/LATAM):

- Starter kit ComPair32/SearchMan32 software and ComPair interface (excl. transformer): 3122 785 90450.
- ComPair interface (excl. transformer): 4822 727 21631.
- Starter kit ComPair32 software (registration version): 3122 785 60040.
- Starter kit SearchMan32 software: 3122 785 60050.
- ComPair32 CD (update): 3122 785 60070 (year 2002), 3122 785 60110 (year 2003 onwards).
- SearchMan32 CD (update): 3122 785 60080 (year 2002), 3122 785 60120 (year 2003), 3122 785 60130 (year 2004).
- ComPair firmware upgrade IC: 3122 785 90510.
- Transformer (non-UK): 4822 727 21632.
- Transformer UK: 4822 727 21633.
- ComPair interface cable: 3122 785 90004.
- ComPair interface extension cable: 3139 131 03791.
- ComPair UART interface cable: 3122 785 90630

Note: If you encounter any problems, contact your local support desk.

5.5 Error Codes

5.5.1 Introduction

The error code buffer contains all detected errors since the last time the buffer was erased. The buffer is written from left to right, new errors are logged at the left side, and all other errors shift one position to the right.
When an error has occurred, the error is added to the list of errors, provided the list is not full or the error is a protection error.
When an error occurs and the error buffer is full, then the new error is not added, and the error buffer stays intact (history is maintained), except when the error is a protection error.
To prevent that an occasional error stays in the list forever, the error is removed from the list after 50+ operation hours.
When multiple errors occur (errors occurred within a short time span), there is a high probability that there is some relation between them.

5.5.2 How to read the Error Buffer

Use one of the following methods:

- On screen via the SAM (only if you have a picture).
  Examples:
  - **0 0 0 0 0**: No errors detected
  - **6 0 0 0 0**: Error code 6 is the last and only detected error
  - **9 6 0 0 0**: Error code 6 was first detected and error code 9 is the last detected error
- Via the blinking LED procedure (when you have no picture). See next paragraph.
- Via ComPair.

5.5.3 How to clear the Error Buffer

Use one of the following methods:

- By activation of the "RESET ERROR BUFFER" command in the SAM menu.
- With a normal RC, key in sequence "MUTE" followed by **"062599"** and "OK".
- When you transmit the commands "DIAGNOSE" - "99" - "OK" with ComPair (or with a DST).
- If the content of the error buffer has not changed for 50+ hours, it resets automatically.

5.5.4 Error Codes

In case of non-intermittent faults, clear the error buffer before you begin the repair. This to ensure that old error codes are no longer present. Before clearing the buffer, write down the content, as this history can give you significant information. If possible, check the entire contents of the error buffer. In some situations, an error code is only the result of another error code and not the actual cause (e.g., a fault in the protection detection circuitry can also lead to a protection).

There are various errors:

- I^2C device errors.
- I^2C bus errors.
- Protection errors.
- Errors not related to an I^2C device, but of importance:
  - **FEM (Falconic with Embedded Memory) (Error 26):** at start-up, after initialisation of the PICNIC, the presence of the FEM can be checked.
  - **Eagle (Error 27):** at start-up, after initialisation of the PICNIC, the presence of the Eagle can be checked.

Table 5-3 Error Table

Error	Device	Description	Def. item	Def. Module indication	Diagr.
1	M24Cxx	NVM, spontaneous blinking error 1	7011	Control	B5a
3	SAA4978	PICNIC	7713	Feature Box	B3a
4	Supply 5 V	5V protection	/	+5V Supply	B5a
5	Supply 8 V	8V protection	/	+8V Supply	B5a
6	Slow I^2C bus blocked	Spontaneous blinking error 6	/	Slow I^2C Blocked	/
8	TDA932x	HIP High-end Input Processor	7323	Chroma IF IO	B2
13	UV1318/...	Tuner protection	1T01	Tuner	B13a
14	MSPxxxx	ITT sound processor	7A02	Audio module	B6a
18	Fast I^2C bus blocked	Spontaneous blinking error 18	/	Fast I^2C Blocked	/
21	M62320P	I/O Expander	7P56	Video Dual Screen	B15b
23	UV1318/...	Sub tuner	1T02	Video Dual Screen	B13b
24	SAB9083H	PIP Muppet	7PA6	Video Dual Screen	B15c
25	Z86130	V-CHIP (US only)	7P51	Video Dual Screen	B15b
26	SAA4998	FEM (Falconic with Embedded Memory)	7760	+3V (FBX) Supply	B3b
27	T6TX5ES	Eagle 1C	7720	+3V (FBX) Supply	B3c
32	M29W400BT	Flash Ram (EPG)	7012	EPG Memory	B5a
34	TDA932x	Second HIP	7P09	Video Dual Screen	B15a
35	T6TU5ES	Columbus	7752	+3V (FBX) Supply	B3d
53	AD9883A	AD converter	7E23	HD	B19c
55	DC/DC converter	One of the voltages is not ok + protection error	/	Supply	/
56	EPLD	EPLD error	7V01	Video control	B19d
76	Audio supply	Audio supply protection	/	/	/
82	TDA7309	Headphone processor	7A06	Video Dual Screen	B6a
83	TEA6422	Source select matrix audio	7I17	Audio Source Select	B14d

Note:

- Error codes 1, 6, or 18 are protection codes and in this case, supplies of some circuits will be switched "off". Also, in protection, the LED will blink the number of times equivalent to the most recent error code.

5.6 The Blinking LED Procedure

5.6.1 Introduction

Via this procedure, you can make the contents of the error buffer visible via the front LED. This is especially useful for fault finding, when there is no picture.

When the SDM is activated, the front LED will show (blink) the contents of the error-buffer. Error-codes > 10 are shown as follows:

- A long blink of 750 ms (which is an indication of the decimal digit),
- A pause of 1.5 s,
- "n" short blinks (where "n" = 1 - 9),
- When all the error-codes are displayed, the sequence finishes with a LED blink of 3 s,
- The sequence starts again.

Example: Error 12 9 6 0 0.
After activation of the SDM, the front LED will show:

- 1 long blink of 750 ms (which is an indication of the decimal digit) followed by a pause of 1.5 s,
- 2 short blinks followed by a pause of 3 s,
- 9 short blinks followed by a pause of 3 s,
- 6 short blinks followed by a pause of 3 s,
- 1 long blink of 3 s to finish the sequence,
- The sequence starts again.

Note: If errors 1, 6, or 18 occur, the LED always gives the last occurred error even if the set is NOT in service mode.

5.6.2 How to Activate

Use one of the following methods:

- Activate the SDM (only via soldering pads marked "SDM" on SSB). The blinking front LED will show the entire contents of the error buffer (this works in "normal operation" mode and in "protection" mode).
- Transmit the commands "MUTE" - **"062500"** - "OK" with a normal RC. The complete error buffer is shown. Take notice that it takes some seconds before the blinking LED starts.
- Transmit the commands "MUTE" - **"06250x"** - "OK" with a normal RC (where "x" is a number between 1 and 5). When x= 1 the last detected error is shown, x= 2 the second last error, etc.... Take notice that it takes some seconds before the blinking LED starts.
- "DIAGNOSE X" with the DST (where "x" is a number between 1 and 5). When x= 1 the last detected error is shown, x= 2 the second last error, etc.... When x = 0 all errors are shown.

5.7 Protections

5.7.1 Introduction

This chassis has only one microprocessor (OTC), which remains active during Stand-by. This because power of the microprocessor and the attached memory chip set is coming from the 3V3 supply, which is derived from the 5V Stand-by-circuitry. Therefore, in both Power-on as in Stand-by mode, the microprocessor is connected to this power supply.

If a fault situation is detected, an error code will be generated and if necessary, the set is put in protection mode. The protection mode is indicated by the blinking of the front LED at a frequency of 3 Hz (or by a coded blinking in special cases).

The content of the error buffer can be read via the service menu (SAM), the blinking LED procedure or via DST/ComPair.

To get a quick diagnosis, this chassis has three service-modes implemented:

- The **Customer Service Mode** (CSM).
- The **Service Default Mode** (SDM). Start-up of the set in a predefined way.
- The **Service Alignment Mode** (SAM). In this mode, items of the set can be adjusted via a menu.

You can activate both SDM and SAM modes via the "service pads" on the SSB, via an RC-transmitter (DST or standard RC), or via ComPair. It is not possible to activate the SAM in "stand-by"; the TV has to be in "normal operation" mode.

The "Protection Diagram" shows the structure of the protection system. See diagram below.

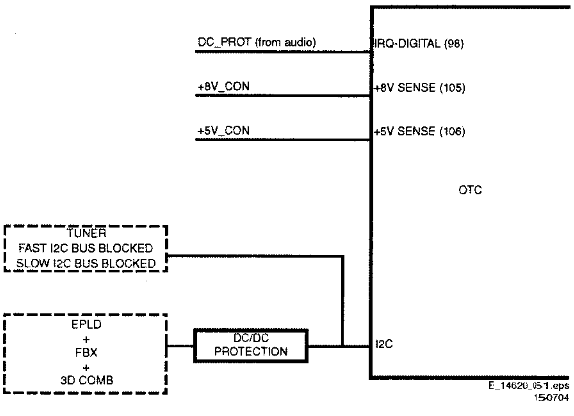


Figure 5-6 Protection diagram

There are several types of protections:

- I^2C related protections.
- OTC related protections (via polling on I/O pins or via algorithms).
- Hardware protection

All protections are explained below.

5.7.2 I^2C Related Protections

In normal operation, some registers of the I^2C controlled ICs are refreshed every 200 ms. During this sequence, the I^2C buses and the I^2C ICs are checked.
An I^2C protection will take place if the SDA and SCL lines are short-circuited to ground, or to each other. An I^2C error will also occur, if the power supply of the IC is missing.

DC/DC protection: When a 3V3 supply is short-circuited, the DC/DC converter switches "off" and goes in protection. The FBX, EPLD IC, and 3D comb IC have no supply voltage and give no acknowledge. In this case, the set should go into protection. An error code is written in the NVM: DC/DC error.

FBX protection: the FBX protection is not available any more. It is replaced by the DC/DC protection.

5.7.3 OTC Related Protections

If a protection is detected at an OTC input, the OTC will start to scan all protection inputs every 200 ms for 5 times. If the protection on one of the inputs is still active after 1 s, the microprocessor will put the set in the protection mode. Before the scanning is started, a so-called "ESD refresh" is carried out. This is done, because the interrupt on one of the inputs is possibly caused either by a flash or by ESD. As a flash or ESD can influence IC settings, the HIP, MSP, 3D Comb and wireless module (not used in this set) are initialised again, to ensure the normal picture and sound conditions of the set.

8 V and 5 V protections: The microprocessor senses the presence of the 8 V and 5 V (via the "+5V_CON" and "+8V_CON" lines). If one (or both) of these voltages is (are) not present, an error code is stored in the error buffer of the NVM, and the set is put in the protection mode.

Audio DC protection: The OTC senses if the audio module is in protection via IRQ-DIGITAL (pin 98 of OTC). If this is the case, the OTC puts the set in protection.

5.7.4 Hardware Protection

Short-circuiting the 3V3 supply from the DC/DC converter will shut down the DC/DC converter. The absence of the 3V3 supply line is also sensed via I^{2}C (see description DC/DC protection above), this is useful if there is something wrong in the detection circuit of the DC/DC converter. There are no hardware protections in this chassis, which switch off the main supply.

5.8 Repair tips

5.8.1 3V3 Supply (DC/DC converter)

As mentioned above, the DC/DC converter is switched "off" when something goes wrong (detection of a missing 3V3 supply at one of the devices supplied by the 3V3). Because of this, the set goes to protection (I^{2}C protection). Error code 55 is logged.
For further diagnoses, you need to overrule the I^{2}C protection: put the set in Service Default Mode by means of the solder pads on the SSB.
The DC/DC converter is still not working because it is switched "off" by the 3V3_FAULT line (schematic B12). Now you have some possibilities:

1. First, measure the impedance over diode 6U06. In normal conditions, you should measure approximately 120 ohm (if possible, verify this with another set). If the impedance is much too low, do not try to start up the converter as mentioned below. Remind that if FET 7U03 is short-circuited, this will also influence your measurement.
2. Desolder coils 5U05 and 5U06, connect an external 3V3 supply at capacitor 2U23 (current limitation to 500 mA) and a second external 3V3 supply at capacitor 2U31 (current limitation to 800 mA). The normal working current of the 3V3_SIM line is approximately 400 mA and the normal working current for the 3V3_DCDCFBX line is approximately 700 mA. Therefore, if one of the currents exceeds their nominal value you can determine in which circuit the overload is situated. If the set would start up and you have normal picture, there is probably no overload but a problem in the detection circuits.
3. If you do not have two external power supplies, you can do the following: Desolder coils 5U02, 5U03, and 5U04 (you must desolder all three, otherwise the circuit could be damaged), connect an external power supply of 3V3 at the cathode of diode 6U06. Make sure to limit the current of this external supply to approximately 1200 mA. If the supplied current exceeds 1100 mA (approximately normal working current) you can conclude that one of the devices supplied by 3V3 is short-circuited.
4. Another possibility is to force the converter to start up by short-circuiting (and keep short-circuited) resistor 3U25 (B12).
   Caution: Be aware that this can damage the set. Even if you measure approximately 120 ohm over diode 6U06, there can still be something wrong in the converter itself. By short-circuiting resistor 3U25, the internal protection of the converter is disabled.

5.8.2 ComPair

This chassis does not have an IR transmitting LED (as in MG-sets). Therefore, a "Service" (ComPair) connector is implemented at the rear side of the set, which is directly accessible. In addition to this, there is also a blinking LED procedure to show the contents of the error buffer.

When you use ComPair, you have the possibility to activate a "stepwise start-up" mode. With this mode, you can initiate the start-up sequence step by step. This also means that in certain steps, some protections are not activated. This is sometimes very convenient during repair.

5.8.3 Protections

Activating SDM via the "service pads" will overrule the processor-controlled protections, but not the hardware protections. This means, that the A/D-input protections (5 and 8 V) and the I^{2}C "not-acknowledging" info of FBX + EPLD + 3D Comb and of the tuner are overruled.
Caution: When doing this, the service technician must know what he is doing, as it could lead to damaging the set.

5.8.4 Repair tip table

Table 5-4 Repair tips

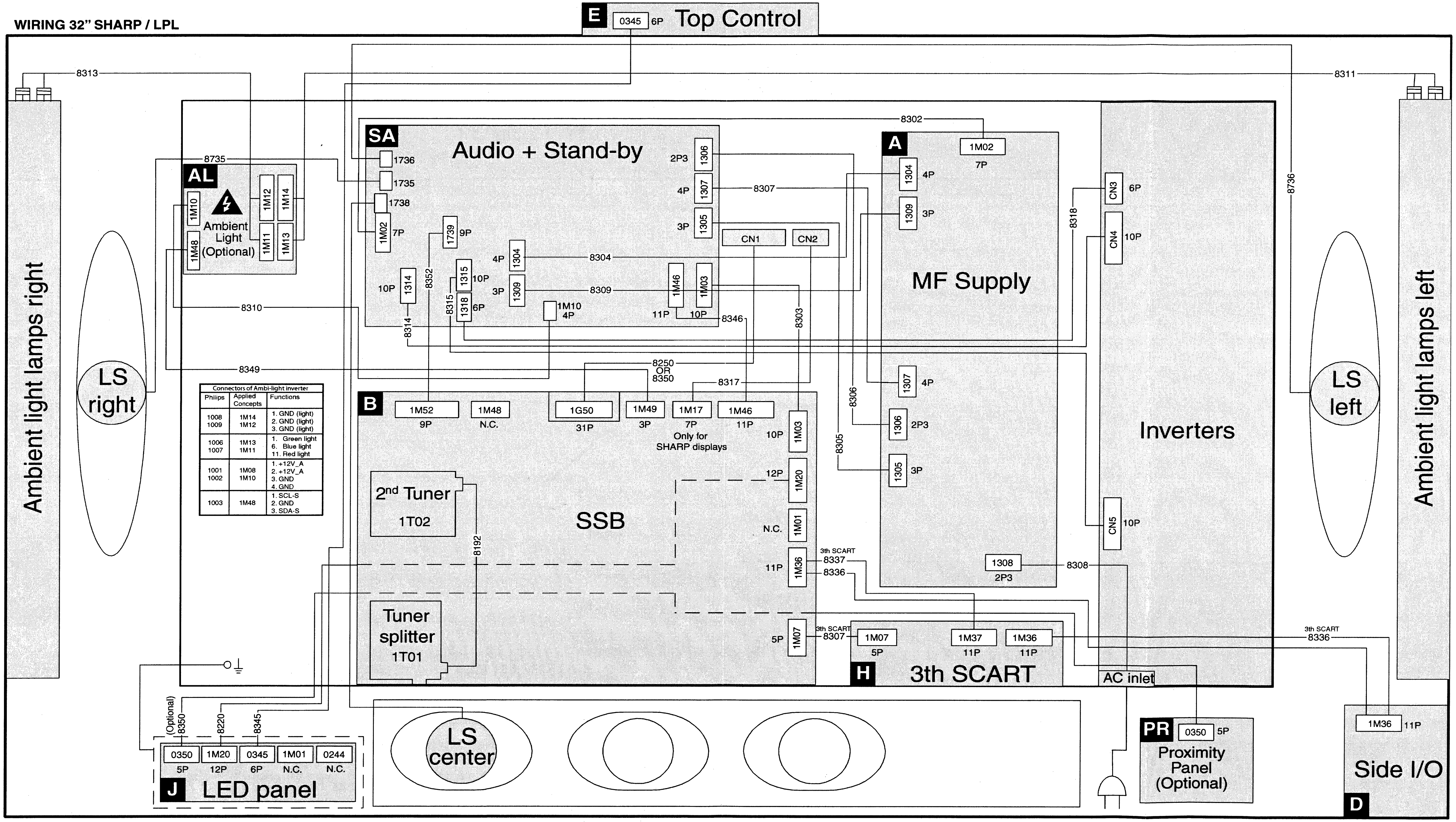
Phenomenon	Possible Cause	Repair tip
F in right corner of the screen and set is not reacting on remote control. The local keyboard is functioning.	TV is in factory mode.	Press menu button on local keyboard for at least 3 seconds. Set will leave factory mode and function normally again.
No picture, LED blinking at 3 Hz.	Set is in protection due to various causes. For error codes see error-code list.	You have no picture, so: - Read the error buffer via ComPair (error buffer is accessible when set is in protection, compare-file will guide you to this) - Read the blinking LED information via standard remote command <mute>**06250x**<ok>. - Or you read the error code sequence via standard remote command <mute>**062500**<ok>. When you have found the error, check the circuitry related to the supply voltage and I^2C-communication or the circuitry that triggers the protection.
No picture, LED blinking with code 6-6-6 or 18-18-18.	No communication on slow I^2C- or fast I^2C-bus.	As processor cannot communicate with one of the 2 buses it the stand-by-led spontaneously starts blinking 6-6-6-etc or 18-18-18-etc... If in the error buffer somewhere is an error 6 or 18, these will have the highest priority starting the mentioned blinking. Measure dependent of the error on the I^2C-bus which device is loading the bus. (Use I^2C-overview)
No picture, LED blinking with code 1-1-1.	No communication on NVM-I^2C bus to the uP.	As the uP cannot communicate with the NVM I^2C bus, it spontaneously starts blinking 1-1-1. **Note:** when there is no access to the NVM, a lot of picture setting can go wrong.
No RC-reception. Blue LED does not echo RC-commands.	uP circuitry or RC-receiver is defective.	In case the set does react on a local keyboard operation, you must check the RC-receiver circuitry (diagram J).
Picture is not synchronised.	The sync is derived in the HIP.	Check crystals in the HIP circuit on bad contacts.
Picture is distorted.	Check video-path in Service Default Mode.	Investigate whether there is an error code present in the error buffer. In case there is one, check the I^2C-bus and/or supply lines (see overview supply lines). Measure and check signal path Tuner-HIP-FBX-EPLD.
Picture with horizontal stripes.	Pixel Plus processing is malfunctioning	Check functionality on circuitry (B3a, B3b, B3c and B3d) of PICNIC, FEM, EAGLE, COLUMBUS and/or field memories. **Tip:** the whole Pixel Plus chipset (4 ICs + Field Memories) can be diagnosed via ComPair.
No NextView (EPG).	IC7012 defective or not powered.	Check circuitry around IC7012 on diagram B5A.
No Teletext.	IC7007 defective or not powered.	Check circuitry around IC7007 on diagram B5A.
Problems caused by EPG (Electronic Program Guide). The TV set "hangs".	Problems with NexTView EPG broadcasts.	To switch from EPG 2C3 to Teletext guide. Press for 4 seconds, simultaneously the Menu button on the TV and digit 0 on the remote. The option settings for NexTView type and Flashram will not change.
NexTView EPG is not functioning only Teletext guide.	EPG version 2C3 is switched off during production.	To switch from Teletext guide to EPG 2C3. Press for 4 seconds, simultaneously the Menu button on the TV and digit 1 on the remote. The option settings for NexTView type and Flashram will not change.
Various symptoms, due to missing local supply voltage.	An interrupted fuse, NFR-resistor or connection.	When no symptom or error code leads you to a specific circuitry, use the supply lines overview (see supply lines overview), for a quick scan of all supply lines.
No sound at the speakers but sound at monitor out.	Possible problem with the class D amplifier	Check circuitry around IC7700 on diagram SA3 (LCD) or C (PDP).
No sound at the speakers but sound at monitor out.	Sound enable from OTC is HIGH, speakers are muted	Check pin 95 of OTC on diagram B5a.
No sound at the speakers not at monitor out, but sound at Scart 1 output.	POR line is low, anti plop circuit mutes the sound	Check pin 8 on connector 1739 on audio panel. Diagram C for PDP sets and diagram SA3 for LCD sets
No sound from any output (except headphone)	Reset audio is high or MSP is not properly reset	Check pin 16 of MSP (diagram B6a) and circuitry around MSP.
No sound from the tuner but sound from any other input.	Problem with the delay line (PDP sets only)	Check circuitry on diagram B6d.
32" Sharp display (LCD) remains black at 1/3 of the bottom	Display is defect.	Replace display.
42" LPL display (LCD) has no backlight.	24V adjustment not correct.	Adjust 24V with pot meter 3U26 on diagram A4 or check circuitry around it.

5.9 Software Downloading

In this chassis, you can **upgrade** the Main software via ComPair without removing the back cover of the set (it is possible that early production sets don't have a hole in the back plate, in this case you have to remove the back plate). The switch (see figure "Service pads"), which is needed for the software downloading procedure, can be reached through a gap in the back cover or the SSB shielding. The switch can be operated with a toothpick or something like that. Make sure that you do not damage the PWB with sharp objects. You can find more information on how this procedure works in the ComPair file. It is possible that not all sets are equipped with the hardware, needed to make software upgrading possible. To speed up the programming process the firmware of the ComPair interface can be upgraded. See paragraph "How To Order" for the order numbers.

6. Block Diagrams, Testpoint Overviews, and Waveforms

Wiring Diagram 32" Sharp/LPL LCD


WIRING 32" SHARP / LPL
E
0345
6P
Top Control
8313
8311
8302
1M02
7P
A
1304
4P
1309
3P
MF Supply
1307
4P
1306
2P3
1305
3P
1308
2P3
8308
SA
Audio + Stand-by
1736
1735
1738
1M02
7P
1739
9P
2P3
1306
4P
1307
8307
3P
1305
CN1
CN2
4P
1304
8304
10P
1314
8352
1315
10P
3P
1309
8309
8315
1318
6P
1M10
4P
1M46
11P
1M03
10P
8346
8303
8314
AL
1M10
1M48
Ambient Light (Optional)
1M12
1M11
1M14
1M13
8735
8310
8349
8250
OR
8350
8317
8318
8736
CN3
6P
CN4
10P
CN5
10P
Inverters
8306
8305
B
1M52
9P
1M48
N.C.
1G50
31P
1M49
3P
1M17
7P
1M46
11P
Only for SHARP displays
10P
1M03
12P
1M20
N.C.
1M01
11P
1M36
3th SCART
8337
8336
5P
1M07
3th SCART
8307
2nd Tuner
1T02
SSB
8192
Tuner splitter
1T01
H
1M07
5P
1M37
11P
1M36
11P
3th SCART
3th SCART
8336
AC inlet
Ambient light lamps right
Ambient light lamps left
LS right
LS left
LS center
(Optional)
8350
8220
8345
0350
5P
1M20
12P
0345
6P
1M01
N.C.
0244
N.C.
J
LED panel
PR
0350
5P
Proximity Panel (Optional)
1M36
11P
Side I/O
D

Connectors of Ambi-light inverter		
Philips	Applied Concepts	Functions
1008 1009	1M14 1M12	1. GND (light) 2. GND (light) 3. GND (light)
1006 1007	1M13 1M11	1. Green light 6. Blue light 11. Red light
1001 1002	1M08 1M10	1. +12V_A 2. +12V_A 3. GND 4. GND
1003	1M48	1. SCL-S 2. GND 3. SDA-S

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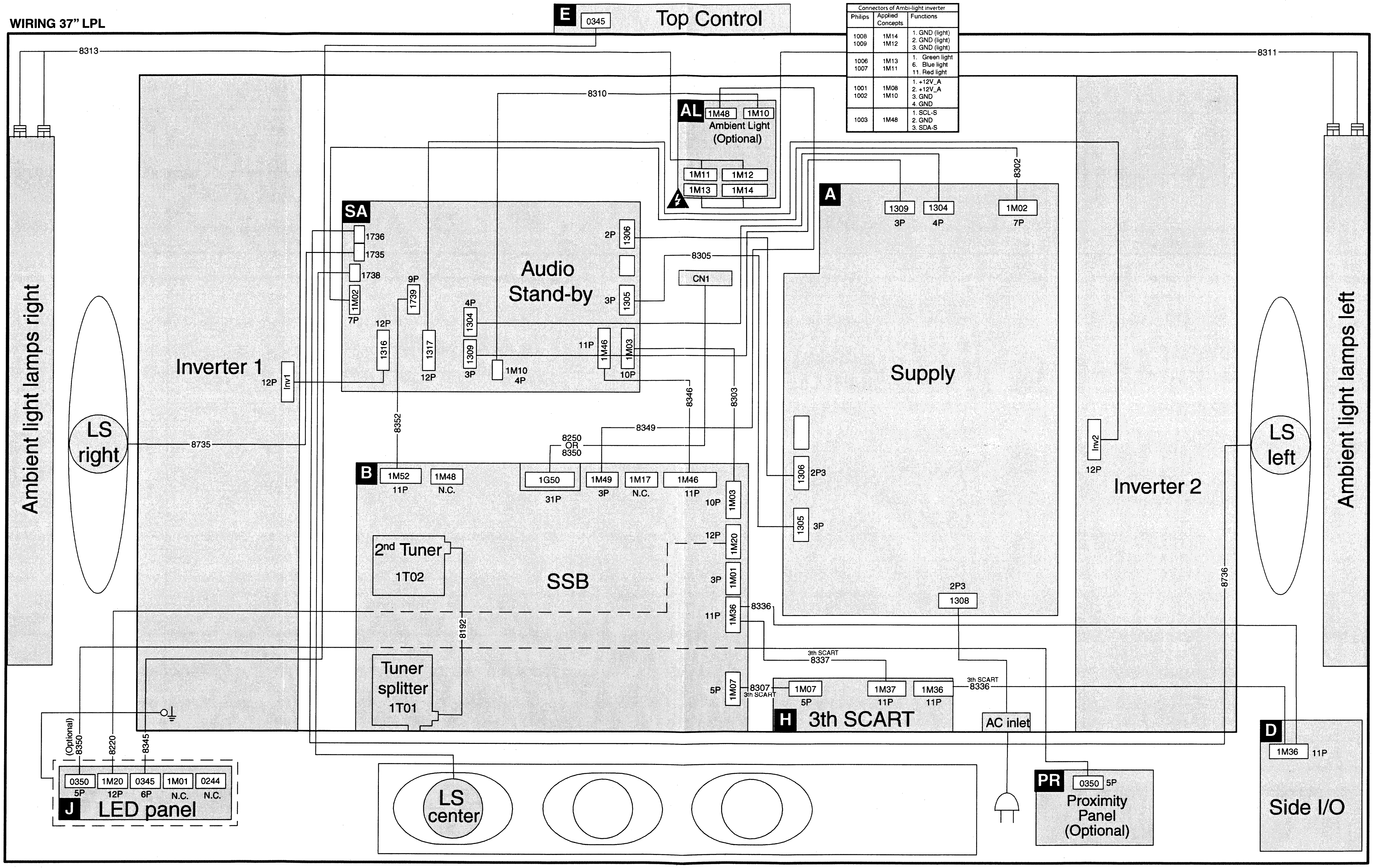
220305

Wiring Diagram 37" LPL LCD

WIRING 37" LPL


E
0345
Top Control
8313
8311
8310
AL
1M48
1M10
Ambient Light
(Optional)
1M11
1M12
1M13
1M14
8302
A
1309
3P
1304
4P
1M02
7P
SA
1736
1735
1738
1M02
7P
9P
1739
12P
1316
1317
12P
4P
1304
1309
3P
1M10
4P
Audio
Stand-by
2P
1306
3P
1305
11P
1M46
1M03
10P
8305
CN1
Inverter 1
12P
Inv1
8352
8346
8303
8349
8250
OR
8350
Ambient light lamps right
LS
right
8735
B
1M52
11P
1M48
N.C.
1G50
31P
1M49
3P
1M17
N.C.
1M46
11P
1M03
10P
12P
1M20
3P
1M01
11P
1M36
8336
2nd Tuner
1T02
SSB
8192
Tuner
splitter
1T01
5P
1M07
8307
3th SCART
3th SCART
8337
1M07
5P
1M37
11P
1M36
11P
3th SCART
8336
H
3th SCART
AC inlet
Supply
1306
2P3
1305
3P
2P3
1308
Inv2
12P
Inverter 2
8736
LS
left
Ambient light lamps left
D
1M36
11P
Side I/O
PR
0350
5P
Proximity
Panel
(Optional)
LS
center
(Optional)
8350
8220
8345
0350
5P
1M20
12P
0345
6P
1M01
N.C.
0244
N.C.
J
LED panel

Connectors of Ambi-light inverter		
Philips	Applied Concepts	Functions
1008 1009	1M14 1M12	1. GND (light) 2. GND (light) 3. GND (light)
1006 1007	1M13 1M11	1. Green light 6. Blue light 11. Red light
1001 1002	1M08 1M10	1. +12V_A 2. +12V_A 3. GND 4. GND
1003	1M48	1. SCL-S 2. GND 3. SDA-S

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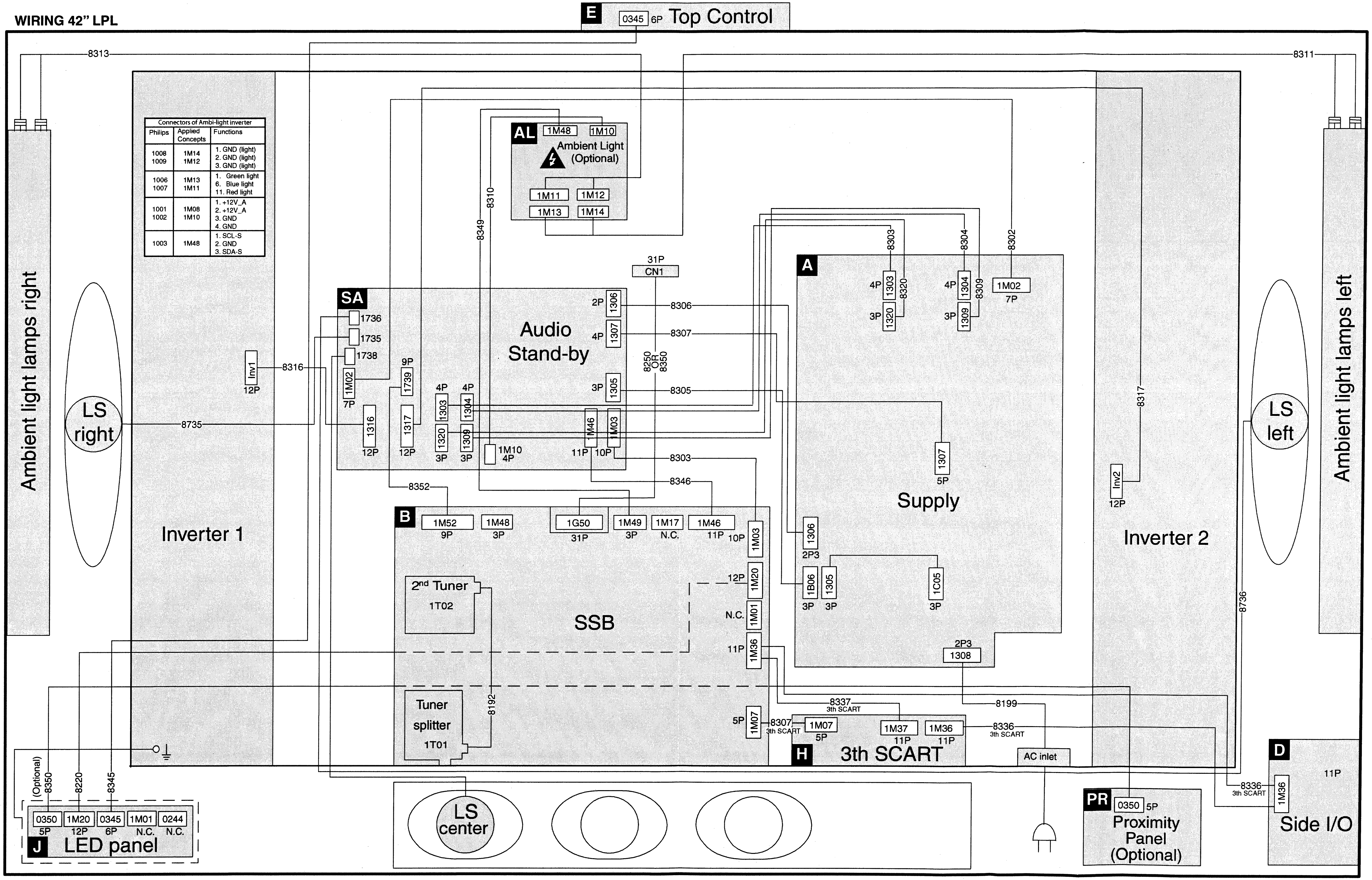
Wiring Diagram 42" LPL LCD

WIRING 42" LPL


E
0345 6P Top Control
8313
8311
AL
1M48
1M10
Ambient Light (Optional)
1M11
1M12
1M13
1M14
8310
8349
31P
CN1
8250 OR 8350
SA
1736
1735
1738
1M02 7P
9P 1739
1316 12P
1317 12P
4P 1303
4P 1304
1320 3P
1309 3P
1M10 4P
Audio Stand-by
2P 1306
4P 1307
3P 1305
1M46 11P
1M03 10P
8306
8307
8305
8303
8346
8352
8316
Inv1 12P
8735
LS right
Ambient light lamps right
Inverter 1
B
1M52 9P
1M48 3P
1G50 31P
1M49 3P
1M17 N.C.
1M46 11P
1M03 10P
1M20 12P
1M01 N.C.
1M36 11P
1M07 5P
2nd Tuner
1T02
SSB
Tuner splitter
1T01
8192
A
8303
8304
8302
4P 1303
8320
3P 1320
4P 1304
8309
3P 1309
1M02 7P
1307 5P
Supply
1306 2P3
1B06 3P
1305 3P
1C05 3P
2P3 1308
8317
Inv2 12P
Inverter 2
LS left
Ambient light lamps left
8736
8337 3th SCART
8307 3th SCART
8336 3th SCART
8199
H
1M07 5P
1M37 11P
1M36 11P
3th SCART
AC inlet
D
11P
8336 3th SCART
1M36
Side I/O
PR
0350 5P
Proximity Panel (Optional)
LS center
(Optional) 8350
8220
8345
J
0350 5P
1M20 12P
0345 6P
1M01 N.C.
0244 N.C.
LED panel

Connectors of Ambi-light inverter		
Philips	Applied Concepts	Functions
1008 1009	1M14 1M12	1. GND (light) 2. GND (light) 3. GND (light)
1006 1007	1M13 1M11	1. Green light 6. Blue light 11. Red light
1001 1002	1M08 1M10	1. +12V_A 2. +12V_A 3. GND 4. GND
1003	1M48	1. SCL-S 2. GND 3. SDA-S

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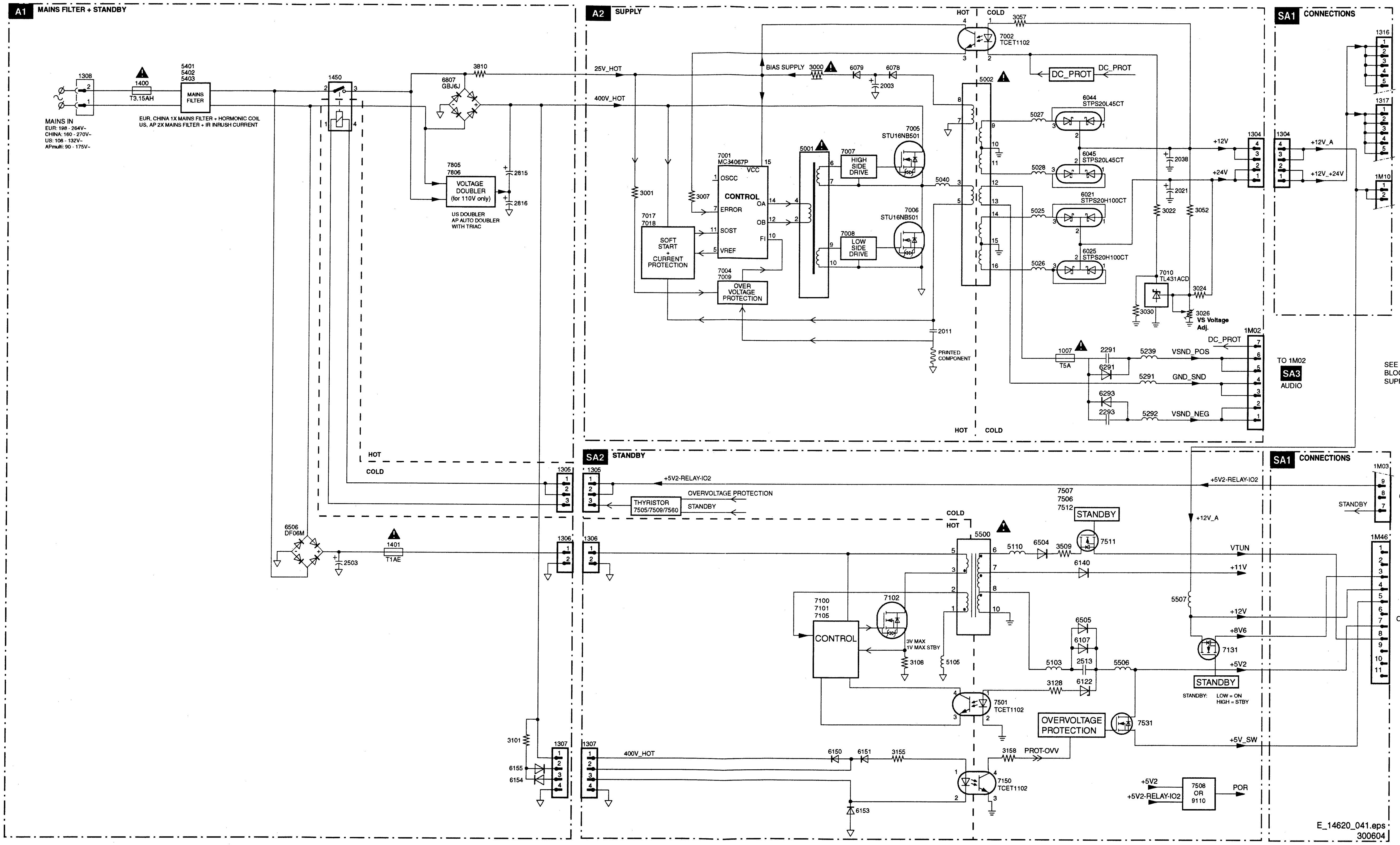
220305

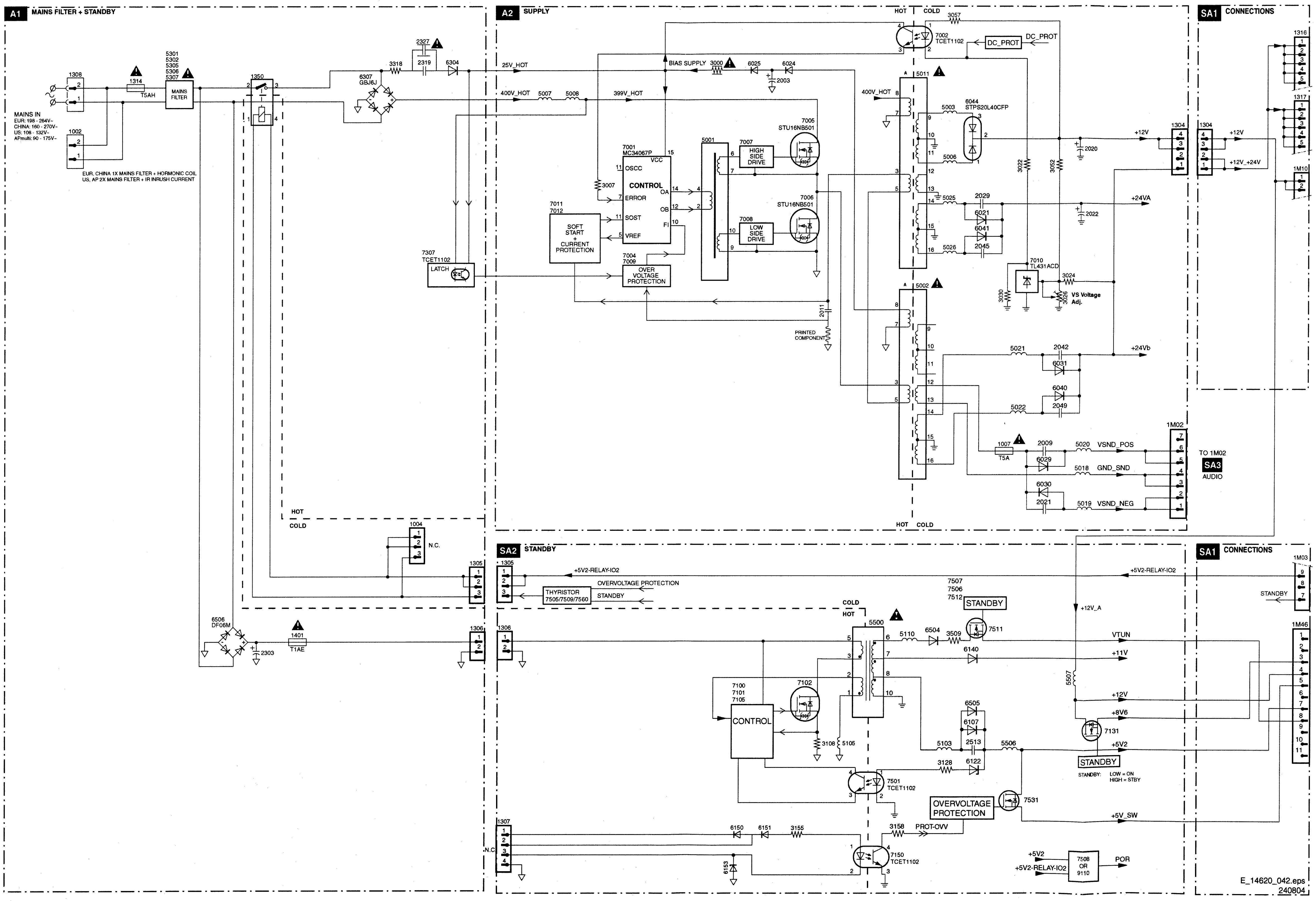
Block Diagram Supply + Standby 32"

SUPPLY + STANDBY 32"

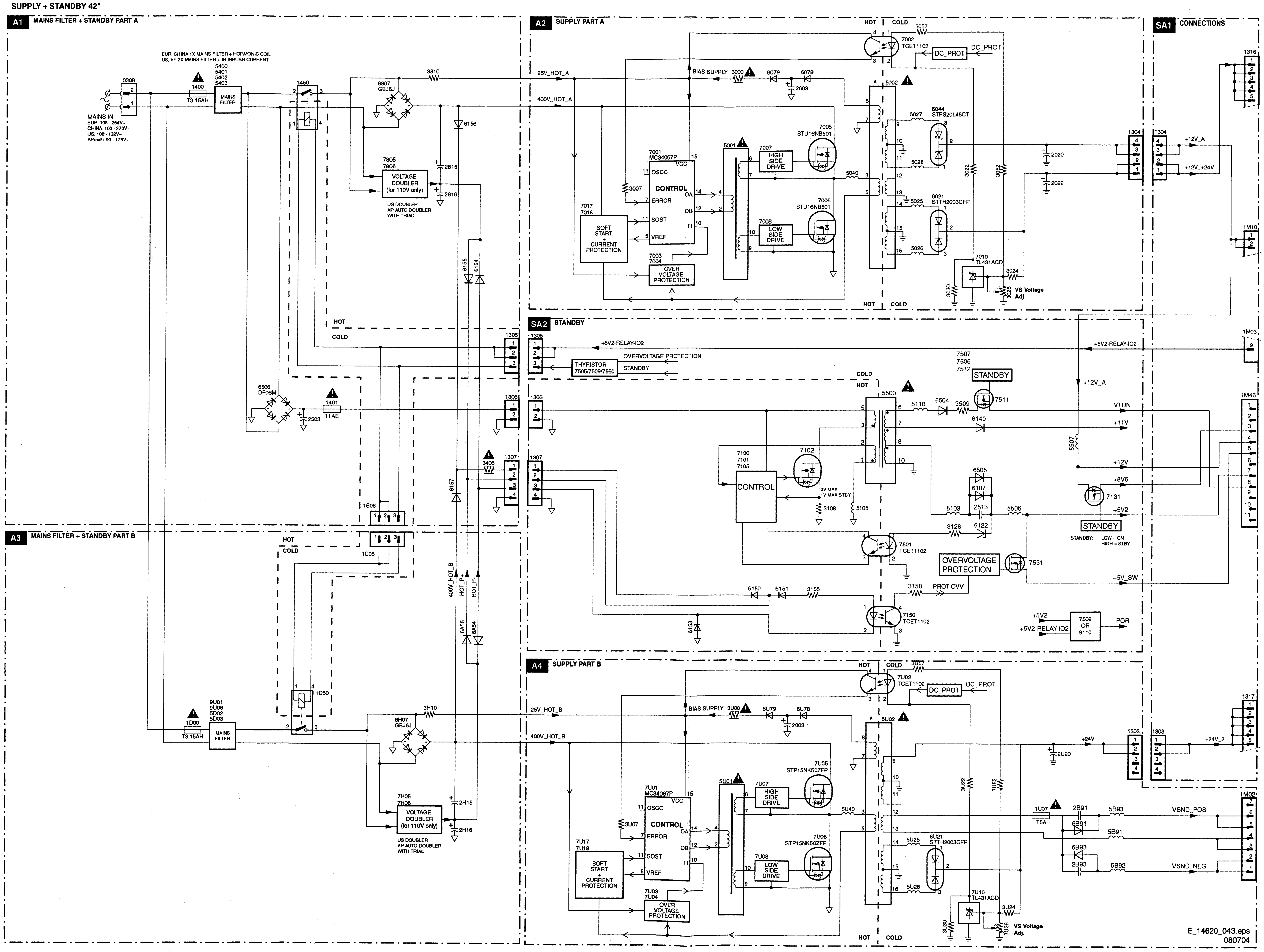

A1 MAINS FILTER + STANDBY
1308
1400
T3.15AH
5401
5402
5403
MAINS FILTER
MAINS IN
EUR: 198 - 264V~
CHINA: 160 - 270V~
US: 108 - 132V~
APmulti: 90 - 175V~
EUR, CHINA 1X MAINS FILTER + HORMONIC COIL
US, AP 2X MAINS FILTER + IR INRUSH CURRENT
1450
3810
6807
GBJ6J
7805
7806
VOLTAGE DOUBLER (for 110V only)
2815
2816
US DOUBLER
AP AUTO DOUBLER
WITH TRIAC
HOT
COLD
6506
DF06M
2503
1401
T1AE
3101
6155
6154
1305
1306
1307
A2 SUPPLY
25V_HOT
400V_HOT
BIAS SUPPLY
3000
6079
6078
2003
3001
3007
7017
7018
SOFT START + CURRENT PROTECTION
7001
MC34067P
OSCC
CONTROL
ERROR
SOST
VREF
VCC
OA
OB
FI
7004
7009
OVER VOLTAGE PROTECTION
5001
7007
HIGH SIDE DRIVE
7005
STU16NB501
7008
LOW SIDE DRIVE
7006
STU16NB501
5040
2011
PRINTED COMPONENT
HOT
COLD
3057
7002
TCET1102
DC_PROT
5002
5027
6044
STPS20L45CT
5028
6045
STPS20L45CT
5025
6021
STPS20H100CT
5026
6025
STPS20H100CT
2038
2021
3022
3052
+12V
+24V
7010
TL431ACD
3024
3030
3026
VS Voltage Adj.
1007
T5A
2291
6291
6293
2293
5239
5291
5292
VSND_POS
GND_SND
VSND_NEG
DC_PROT
1M02
TO 1M02
SA3
AUDIO
1304
SA1 CONNECTIONS
1316
TO DISPLAY
1317
TO DISPLAY
+12V_A
+12V_+24V
1M10
TO AL AMBI LIGHT
SEE ALSO BLOCK DIAGRAM SUPPLY LINE
SA2 STANDBY
+5V2-RELAY-IO2
THYRISTOR 7505/7509/7560
OVERVOLTAGE PROTECTION
STANDBY
7507
7506
7512
STANDBY
7511
5500
5110
6504
3509
6140
VTUN
+11V
7100
7101
7105
CONTROL
7102
3V MAX
1V MAX STBY
3108
5105
5507
+12V_A
+12V
6505
6107
2513
5103
5506
+8V6
+5V2
7131
STANDBY
STANDBY: LOW = ON HIGH = STBY
3128
6122
7501
TCET1102
OVERVOLTAGE PROTECTION
7531
+5V_SW
400V_HOT
6150
6151
3155
3158
PROT-OVV
7150
TCET1102
6153
+5V2
+5V2-RELAY-IO2
7508 OR 9110
POR
SA1 CONNECTIONS
1M03
TO 1M03
B21 CONNECTIONS
1M46
TO 1M46
B21 CONNECTIONS
E_14620_041.eps
300604

Block Diagram Supply + Standby 37"

SUPPLY + STANDBY 37"

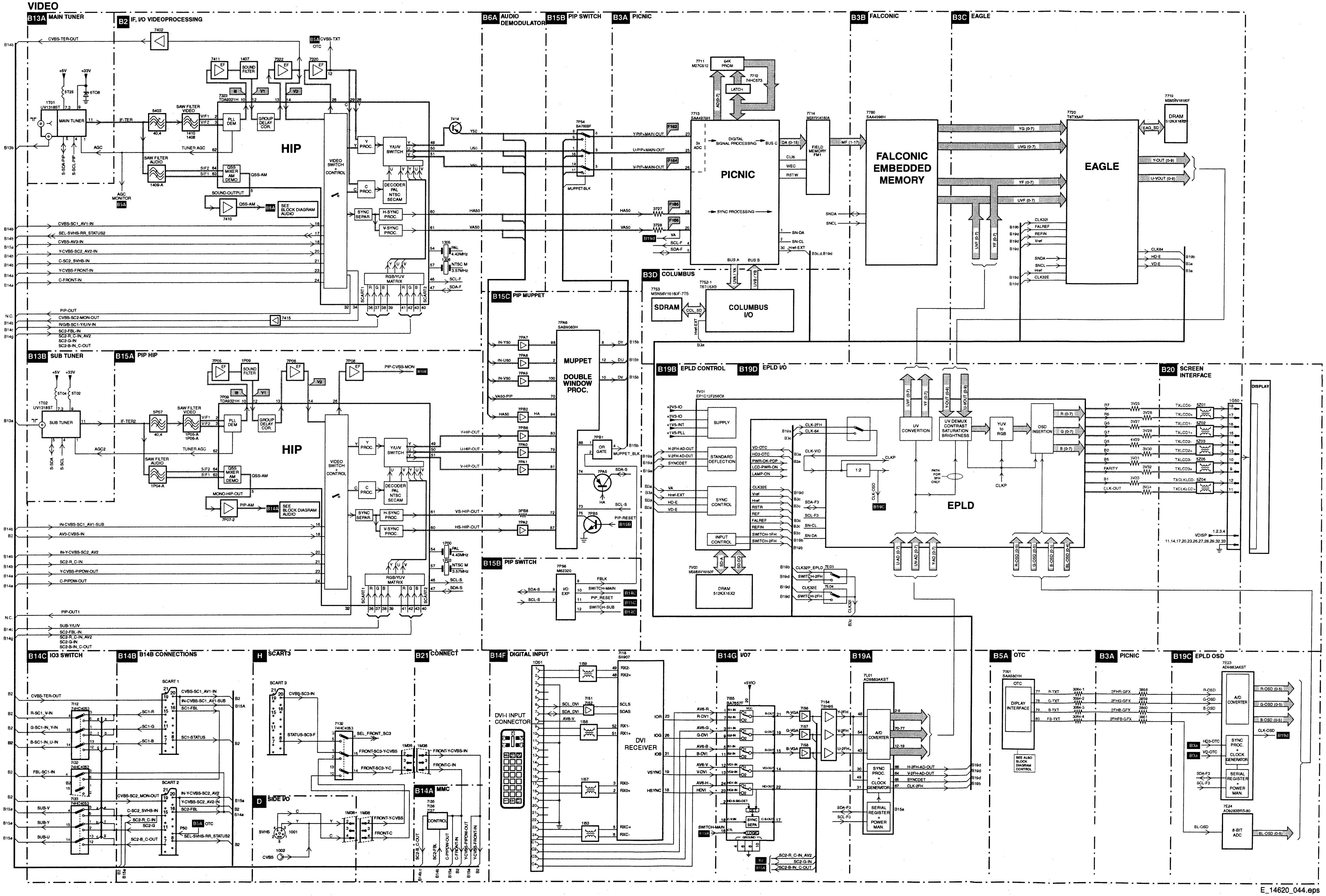

A1 MAINS FILTER + STANDBY
MAINS IN
EUR: 198 - 264V~
CHINA: 160 - 270V~
US: 108 - 132V~
APmulti: 90 - 175V~
1308
1002
1314
T5AH
5301
5302
5305
5306
5307
MAINS FILTER
EUR, CHINA 1X MAINS FILTER + HORMONIC COIL
US, AP 2X MAINS FILTER + IR INRUSH CURRENT
1350
2327
2319
3318
6304
6307
GBJ6J
7307
TCET1102
LATCH
HOT
COLD
1004
N.C.
1305
6506
DF06M
2303
1401
T1AE
1306
1307
N.C
A2 SUPPLY
25V_HOT
400V_HOT
5007
5008
399V_HOT
BIAS SUPPLY
3000
6025
6024
2003
7002
TCET1102
3057
DC_PROT
7001
MC34067P
VCC
OSCC
CONTROL
ERROR
SOST
VREF
OA
OB
FI
3007
7011
7012
SOFT START + CURRENT PROTECTION
7004
7009
OVER VOLTAGE PROTECTION
5001
7007
HIGH SIDE DRIVE
7008
LOW SIDE DRIVE
7005
STU16NB501
7006
STU16NB501
2011
PRINTED COMPONENT
5011
5002
5003
6044
STPS20L40CFP
5006
5025
2029
6021
6041
5026
2045
2020
2022
3022
3052
7010
TL431ACD
3024
3030
3026
VS Voltage Adj.
+12V
+24VA
+24Vb
5021
2042
6031
6040
5022
2049
1007
T5A
2009
6029
5020
VSND_POS
5018
GND_SND
6030
2021
5019
VSND_NEG
1M02
TO 1M02
SA3
AUDIO
SA1 CONNECTIONS
1316
TO DISPLAY
1317
TO DISPLAY
1304
+12V_+24V
1M10
TO
AL
AMBI LIGHT
SA2 STANDBY
+5V2-RELAY-IO2
OVERVOLTAGE PROTECTION
STANDBY
THYRISTOR
7505/7509/7560
7507
7506
7512
STANDBY
5500
5110
6504
3509
7511
6140
VTUN
+11V
+12V_A
5507
+8V6
7131
+5V2
6505
6107
5103
2513
5506
3128
6122
7100
7101
7105
CONTROL
7102
3108
5105
7501
TCET1102
OVERVOLTAGE PROTECTION
7531
+5V_SW
STANDBY: LOW = ON HIGH = STBY
6150
6151
3155
3158
PROT-OVV
6153
7150
TCET1102
+5V2
+5V2-RELAY-IO2
7508 OR 9110
POR
SA1 CONNECTIONS
1M03
TO 1M03
B21
CONNECTIONS
1M46
TO 1M46
B21
CONNECTIONS
E_14620_042.eps
240804

Block Diagram Supply + Standby 42"


SUPPLY + STANDBY 42"
A1 MAINS FILTER + STANDBY PART A
EUR, CHINA 1X MAINS FILTER + HORMONIC COIL
US, AP 2X MAINS FILTER + IR INRUSH CURRENT
0308
1400
T3.15AH
5400
5401
5402
5403
MAINS FILTER
1450
MAINS IN
EUR: 198 - 264V~
CHINA: 160 - 270V~
US: 108 - 132V~
APmulti: 90 - 175V~
3810
6807
GBJ6J
6156
7805
7806
VOLTAGE DOUBLER (for 110V only)
US DOUBLER
AP AUTO DOUBLER
WITH TRIAC
2815
2816
6155
6154
6506
DF06M
1401
T1AE
2503
3406
6157
HOT
COLD
1305
1306
1307
1B06
1C05
A2 SUPPLY PART A
25V_HOT_A
400V_HOT_A
BIAS SUPPLY
3000
6079
6078
2003
7001
MC34067P
VCC
OSCC
CONTROL
OA
OB
ERROR
SOST
VREF
FI
3007
7017
7018
SOFT START + CURRENT PROTECTION
7003
7004
OVER VOLTAGE PROTECTION
5001
7007
HIGH SIDE DRIVE
7008
LOW SIDE DRIVE
7005
STU16NB501
7006
STU16NB501
5040
5002
7002
TCET1102
3057
DC_PROT
5027
6044
STPS20L45CT
5028
5025
6021
STTH2003CFP
5026
3022
3052
2020
2022
7010
TL431ACD
3024
3030
3026
VS Voltage Adj.
SA1 CONNECTIONS
1316
TO DISPLAY
1304
+12V_A
+12V_+24V
1M10
TO AL AMBI LIGHT
1M03
TO 1M03 B21 CONNECTIONS
1M46
TO 1M46 B21 CONNECTIONS
1317
TO DISPLAY
1303
+24V_2
1M02
TO 1M02 SA3 AUDIO
SA2 STANDBY
+5V2-RELAY-IO2
THYRISTOR 7505/7509/7560
OVERVOLTAGE PROTECTION
STANDBY
7507
7506
7512
5500
5110
6504
3509
7511
6140
VTUN
+11V
+12V
+8V6
+5V2
5507
7131
7100
7101
7105
CONTROL
7102
3V MAX
1V MAX STBY
3108
5105
6505
6107
5103
2513
5506
3128
6122
STANDBY: LOW = ON HIGH = STBY
7501
TCET1102
OVERVOLTAGE PROTECTION
7531
+5V_SW
6150
6151
3155
3158
PROT-OVV
6153
7150
TCET1102
+5V2
+5V2-RELAY-IO2
7508 OR 9110
POR
A3 MAINS FILTER + STANDBY PART B
9U01
9U06
5D02
5D03
1D00
T3.15AH
1D50
3H10
6H07
GBJ6J
7H05
7H06
VOLTAGE DOUBLER (for 110V only)
2H15
2H16
400V_HOT_B
HOT_P
6A55
6A54
A4 SUPPLY PART B
25V_HOT_B
400V_HOT_B
3U00
6U79
6U78
7U01
MC34067P
3U07
7U17
7U18
7U03
7U04
5U01
7U07
7U08
7U05
STP15NK50ZFP
7U06
STP15NK50ZFP
5U40
5U02
7U02
TCET1102
3U57
5U25
6U21
STTH2003CFP
5U26
3U22
3U52
+24V
2U20
1U07
T5A
2B91
6B91
6B93
2B93
5B93
5B91
5B92
VSND_POS
VSND_NEG
7U10
TL431ACD
3U24
3U30
3U26
E_14620_043.eps
080704

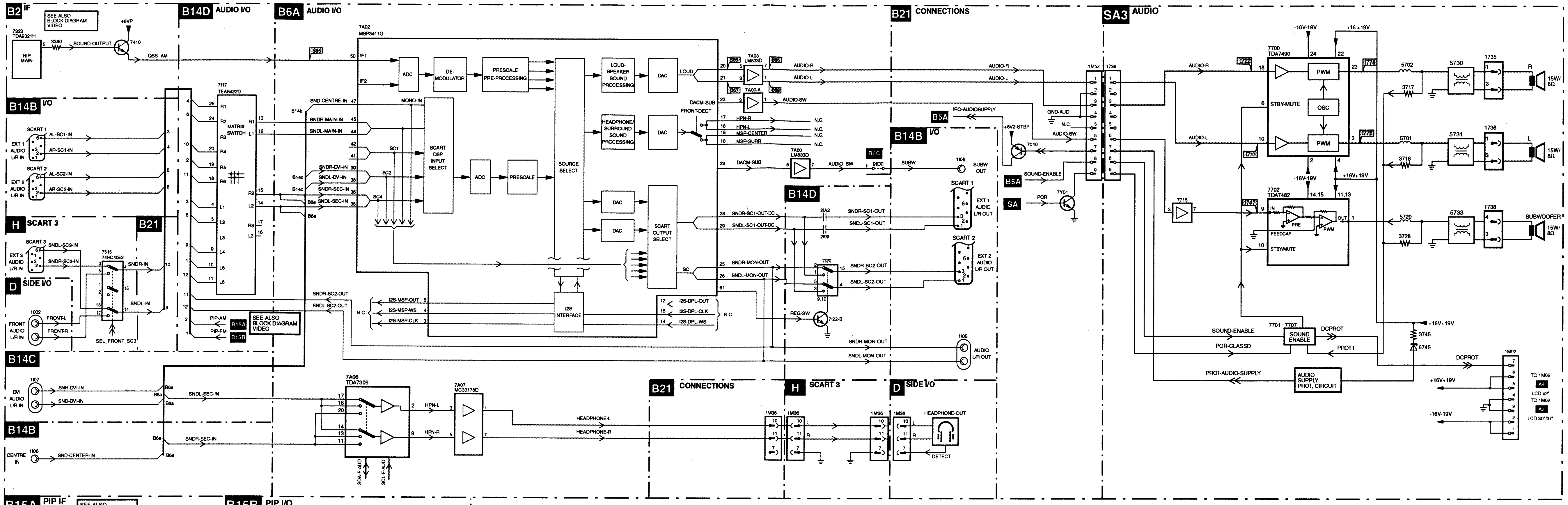
Block Diagram Video

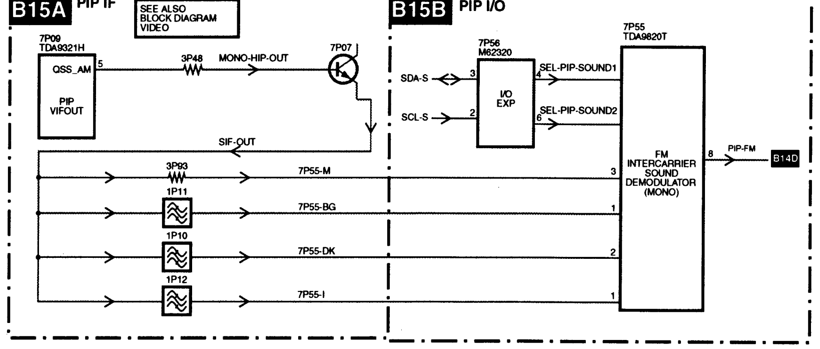
VIDEO


B13A MAIN TUNER
B2 IF, I/O VIDEOPROCESSING
B6A AUDIO DEMODULATOR
B15B PIP SWITCH
B3A PICNIC
B3B FALCONIC
B3C EAGLE
MAIN TUNER
1T01 UV1318ST
SAW FILTER VIDEO
SAW FILTER AUDIO
SOUND FILTER
PLL DEM
GROUP DELAY COR.
QSS MIXER AM DEMO
HIP
VIDEO SWITCH + CONTROL
Y PROC.
Y/U/V SWITCH
C PROC
DECODER PAL NTSC SECAM
SYNC SEPAR.
H-SYNC PROC
V-SYNC PROC
RGB/YUV MATRIX
4.43MHz
3.57MHz
SEE BLOCK DIAGRAM AUDIO
AGC MONITOR
CVBS-TER-OUT
CVBS-SC1_AV1-IN
SEL-SVHS-RR_STATUS2
CVBS-AV3-IN
Y-CVBS-SC2_AV2-IN
C-SC2_SVHS-IN
Y-CVBS-FRONT-IN
C-FRONT-IN
PIP-OUT
CVBS-SC2-MON-OUT
R/G/B-SC1-Y/U/V-IN
SC2-FBL-IN
SC2-R_C-IN_AV2
SC2-G-IN
SC2-B-IN_C-OUT
B5A CVBS-TXT OTC
DIGITAL SIGNAL PROCESSING
PICNIC
SYNC PROCESSING
64K PROM
LATCH
FIELD MEMORY
FALCONIC EMBEDDED MEMORY
EAGLE
DRAM
B3D COLUMBUS
SDRAM
COLUMBUS I/O
B15C PIP MUPPET
MUPPET DOUBLE WINDOW PROC.
OR GATE
MUPPET-BLK
B13B SUB TUNER
B15A PIP HIP
SUB TUNER
1T02 UV1318ST
PIP-CVBS-MON
IN-CVBS-SC1_AV1-SUB
AV3-CVBS-IN
IN-Y-CVBS-SC2_AV2
SC2-R_C-IN
Y-CVBS-PIPDW-OUT
C-PIPDW-OUT
PIP-OUT1
SUB-Y/U/V
B15B PIP SWITCH
I/O EXP
SWITCH-MAIN
PIP_RESET
SWITCH-SUB
B19B EPLD CONTROL
B19D EPLD I/O
SUPPLY
STANDARD DEFLECTION
SYNC CONTROL
INPUT CONTROL
DRAM 512KX16X2
UV CONVERTION
UV DEMUX CONTRAST SATURATION BRIGHTNESS
YUV to RGB
OSD INSERTION
EPLD
B20 SCREEN INTERFACE
DISPLAY
B14C IO3 SWITCH
B14B B14B CONNECTIONS
H SCART3
B21 CONNECT
B14F DIGITAL INPUT
B14G VO7
B19A
B5A OTC
B3A PICNIC
B19C EPLD OSD
SCART 1
SCART 2
SCART 3
SIDE I/O
SVHS
CVBS
B14A MMC
CONTROL
DVI-I INPUT CONNECTOR
DVI RECEIVER
A/D CONVERTER
SYNC PROC. + CLOCK GENERATOR
SERIAL REGISTER + POWER MAN.
DISPLAY INTERFACE
SEE ALSO BLOCK DIAGRAM CONTROL
A/D COVERTER
8-BIT ADC
E_14620_044.eps
230704

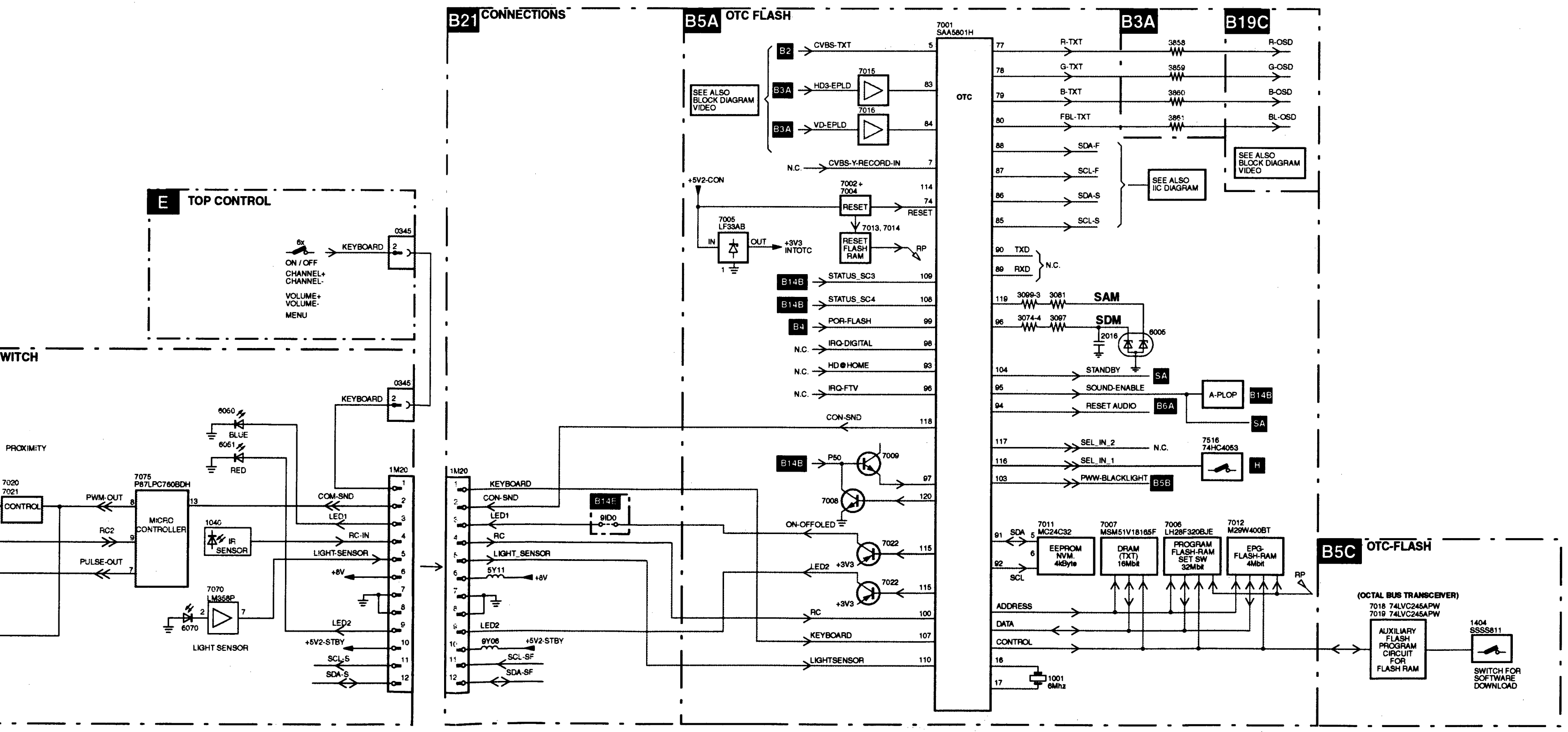
Block Diagram Audio

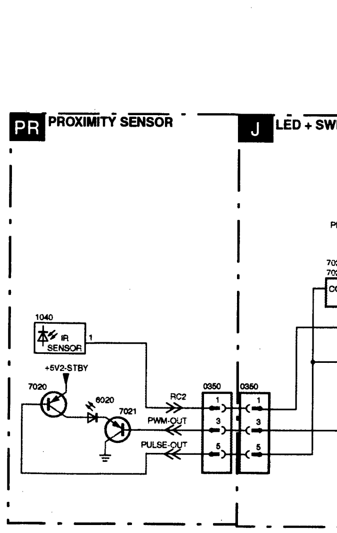
AUDIO


B2 IF
SEE ALSO BLOCK DIAGRAM VIDEO
7323 TDA9321H
HIP MAIN
SOUND-OUTPUT
QSS_AM
B14D AUDIO I/O
B6A AUDIO I/O
7A02 MSP3411G
ADC
DE-MODULATOR
PRESCALE PRE-PROCESSING
LOUD-SPEAKER SOUND PROCESSING
DAC
HEADPHONE/ SURROUND SOUND PROCESSING
SOURCE SELECT
SCART DSP INPUT SELECT
PRESCALE
SCART OUTPUT SELECT
I2S INTERFACE
7117 TEA6422D
MATRIX SWITCH
B14B I/O
SCART 1
EXT 1 AUDIO L/R IN
SCART 2
EXT 2 AUDIO L/R IN
H SCART 3
EXT 3 AUDIO L/R IN
7515 74HC4053
D SIDE I/O
FRONT AUDIO L/R IN
SEL_FRONT_SC3
B21
B14C
DVI AUDIO L/R IN
B14B
CENTRE IN
SND-CENTER-IN
7A06 TDA7309
7A07 MC33178D
HEADPHONE-L
HEADPHONE-R
B21 CONNECTIONS
H SCART 3
D SIDE I/O
HEADPHONE-OUT
DETECT
B14D
SCART 1
EXT 1 AUDIO L/R OUT
SCART 2
EXT 2 AUDIO L/R OUT
7120
REG-SW
B14B I/O
SUBW OUT
AUDIO L/R OUT
B5A
SA
SOUND-ENABLE
POR
IRQ-AUDIOSUPPLY
+5V2-STBY
SA3 AUDIO
7700 TDA7490
PWM
OSC
STBY-MUTE
7702 TDA7482
FEEDCAP
7715
AUDIO-R
AUDIO-L
-16V-19V
+16+19V
15W/ 8Ω
R
L
SUBWOOFER
SOUND-ENABLE
POR-CLASSD
PROT-AUDIO-SUPPLY
7701 - 7707
SOUND ENABLE
DCPROT
PROT1
AUDIO SUPPLY PROT. CIRCUIT
TO 1M02
LCD 42"
LCD 30"/37"


B15A PIP IF
SEE ALSO BLOCK DIAGRAM VIDEO
7P09 TDA9321H
QSS_AM
PIP VIFOUT
MONO-HIP-OUT
SIF-OUT
7P55-M
7P55-BG
7P55-DK
7P55-I
B15B PIP I/O
7P56 M62320
I/O EXP
SDA-S
SCL-S
SEL-PIP-SOUND1
SEL-PIP-SOUND2
7P55 TDA9820T
FM INTERCARRIER SOUND DEMODULATOR (MONO)
PIP-FM
B14D

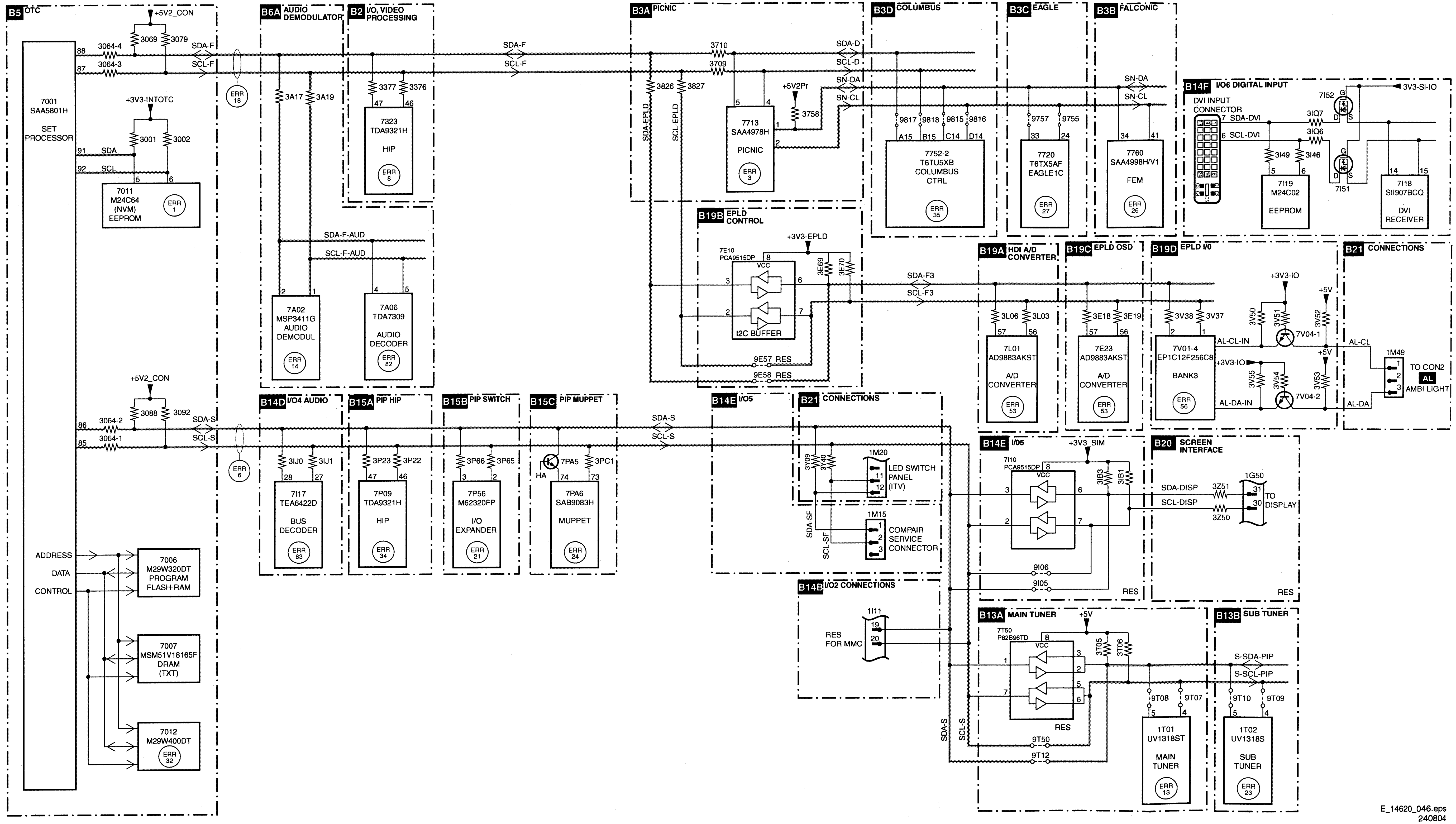
BLOCK DIAGRAM CONTROLS


B21 CONNECTIONS
B5A OTC FLASH
B3A
B19C
7001 SAA5801H
OTC
R-TXT
G-TXT
B-TXT
FBL-TXT
R-OSD
G-OSD
B-OSD
BL-OSD
SEE ALSO BLOCK DIAGRAM VIDEO
SEE ALSO IIC DIAGRAM
SDA-F
SCL-F
SDA-S
SCL-S
RESET
RESET FLASH RAM
7005 LF33AB
STATUS_SC3
STATUS_SC4
POR-FLASH
IRQ-DIGITAL
HD@HOME
IRQ-FTV
CON-SND
SAM
SDM
STANDBY
SOUND-ENABLE
RESET AUDIO
A-PLOP
SEL_IN_2
SEL_IN_1
PWM-BLACKLIGHT
7516 74HC4053
ON-OFFOLED
7011 M24C32
EEPROM NVM 4kByte
7007 M5M51V18165F
DRAM (TXT) 16Mbit
7006 LH28F320BJE
PROGRAM FLASH-RAM SET SW 32Mbit
7012 M29W400BT
EPG FLASH-RAM 4Mbit
ADDRESS
DATA
CONTROL
1001 6MHz
B5C OTC-FLASH
(OCTAL BUS TRANSCEIVER) 7018 74LVC245APW 7019 74LVC245APW
AUXILIARY FLASH PROGRAM CIRCUIT FOR FLASH RAM
1404 SSS5611
SWITCH FOR SOFTWARE DOWNLOAD
E TOP CONTROL
KEYBOARD
ON / OFF
CHANNEL+
CHANNEL-
VOLUME+
VOLUME-
MENU
J LED + SWITCH
7075 P87LPC760BDH
MICRO CONTROLLER
BLUE
RED
IR SENSOR
7070 M358P
LIGHT SENSOR
COM-SND
LED1
RC-IN
LIGHT-SENSOR
LED2
+5V2-STBY
SCL-S
SDA-S
KEYBOARD
LIGHTSENSOR
E_14620_045.eps
260405


PR PROXIMITY SENSOR
1040 IR SENSOR
+5V2-STBY
7020
7021
RC2
PWM-OUT
PULSE-OUT

I^{2}C IC's overview

IIC


B5 OTC
+5V2_CON
3069
3079
3064-4
3064-3
88
87
SDA-F
SCL-F
7001
SAA5801H
SET PROCESSOR
+3V3-INTOTC
3001
3002
91 SDA
92 SCL
7011
M24C64
(NVM)
EEPROM
ERR 1
ERR 18
86
85
3064-2
3064-1
3088
3092
SDA-S
SCL-S
ERR 6
ADDRESS
DATA
CONTROL
7006
M29W320DT
PROGRAM
FLASH-RAM
7007
MSM51V18165F
DRAM
(TXT)
7012
M29W400DT
ERR 32
B6A AUDIO DEMODULATOR
3A17
3A19
SDA-F-AUD
SCL-F-AUD
7A02
MSP3411G
AUDIO
DEMODUL
ERR 14
B2 I/O, VIDEO PROCESSING
3377
3376
7323
TDA9321H
HIP
ERR 8
7A06
TDA7309
AUDIO
DECODER
ERR 82
B3A PICNIC
3710
3709
SDA-D
SCL-D
SN-DA
SN-CL
3826
3827
SDA-EPLD
SCL-EPLD
+5V2Pr
3758
7713
SAA4978H
PICNIC
ERR 3
B19B EPLD CONTROL
+3V3-EPLD
7E10
PCA9515DP
VCC
3E69
3E70
I2C BUFFER
9E57 RES
9E58 RES
SDA-F3
SCL-F3
B3D COLUMBUS
9817
9818
9815
9816
A15
B15
C14
D14
7752-2
T6TU5XB
COLUMBUS
CTRL
ERR 35
B3C EAGLE
9757
9755
7720
T6TX5AF
EAGLE1C
ERR 27
B3B FALCONIC
7760
SAA4998H/V1
FEM
ERR 26
B14F I/O6 DIGITAL INPUT
DVI INPUT CONNECTOR
SDA-DVI
SCL-DVI
3V3-Si-IO
7I52
3IQ7
3IQ6
3I49
3I46
7I51
7I19
M24C02
EEPROM
7I18
SII907BCQ
DVI
RECEIVER
B19A HDI A/D CONVERTER
3L06
3L03
7L01
AD9883AKST
A/D
CONVERTER
ERR 53
B19C EPLD OSD
3E18
3E19
7E23
AD9883AKST
A/D
CONVERTER
ERR 53
B19D EPLD I/0
3V38
3V37
7V01-4
EP1C12F256C8
BANK3
ERR 56
AL-CL-IN
AL-DA-IN
+3V3-IO
+5V
3V50
3V51
3V52
3V55
3V54
3V53
7V04-1
7V04-2
B21 CONNECTIONS
AL-CL
AL-DA
1M49
TO CON2
AL
AMBI LIGHT
B14D I/O4 AUDIO
3IJ0
3IJ1
7I17
TEA6422D
BUS
DECODER
ERR 83
B15A PIP HIP
3P23
3P22
7P09
TDA9321H
HIP
ERR 34
B15B PIP SWITCH
3P66
3P65
7P56
M62320FP
I/O
EXPANDER
ERR 21
B15C PIP MUPPET
7PA5
3PC1
HA
7PA6
SAB9083H
MUPPET
ERR 24
B14E I/O5
B21 CONNECTIONS
3Y09
3Y40
1M20
LED SWITCH PANEL (ITV)
1M15
COMPAIR SERVICE CONNECTOR
SDA-SF
SCL-SF
B14B I/O2 CONNECTIONS
1I11
RES FOR MMC
B14E I/O5
+3V3_SIM
7I10
PCA9515DP
VCC
3IB3
3IB1
9I06
9I05
RES
B20 SCREEN INTERFACE
SDA-DISP
SCL-DISP
3Z51
3Z50
1G50
TO DISPLAY
RES
B13A MAIN TUNER
+5V
7T50
P82B96TD
VCC
3T05
3T06
9T08
9T07
9T50
9T12
RES
1T01
UV1318ST
MAIN
TUNER
ERR 13
B13B SUB TUNER
S-SDA-PIP
S-SCL-PIP
9T10
9T09
1T02
UV1318S
SUB
TUNER
ERR 23
SDA-S
SCL-S

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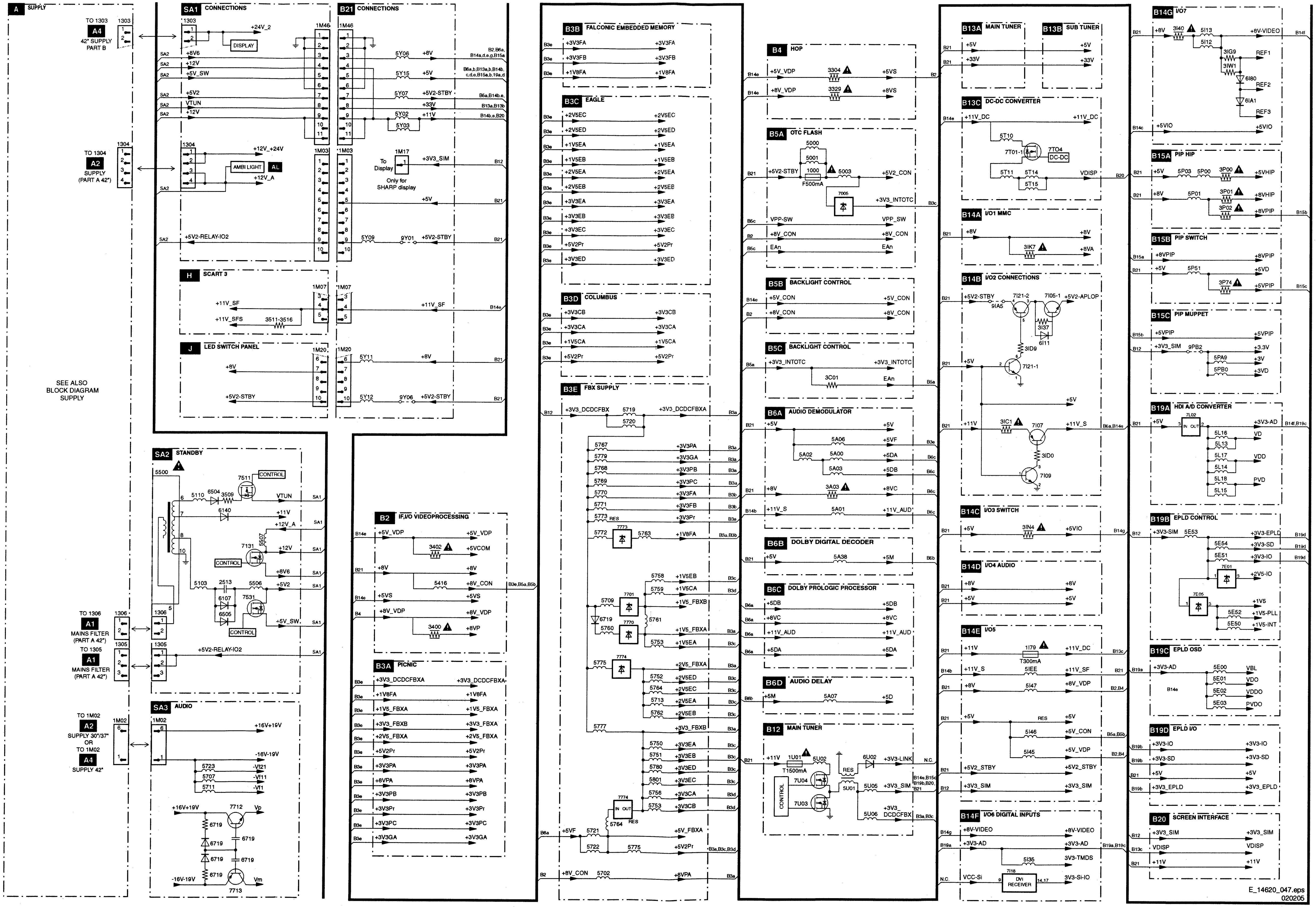
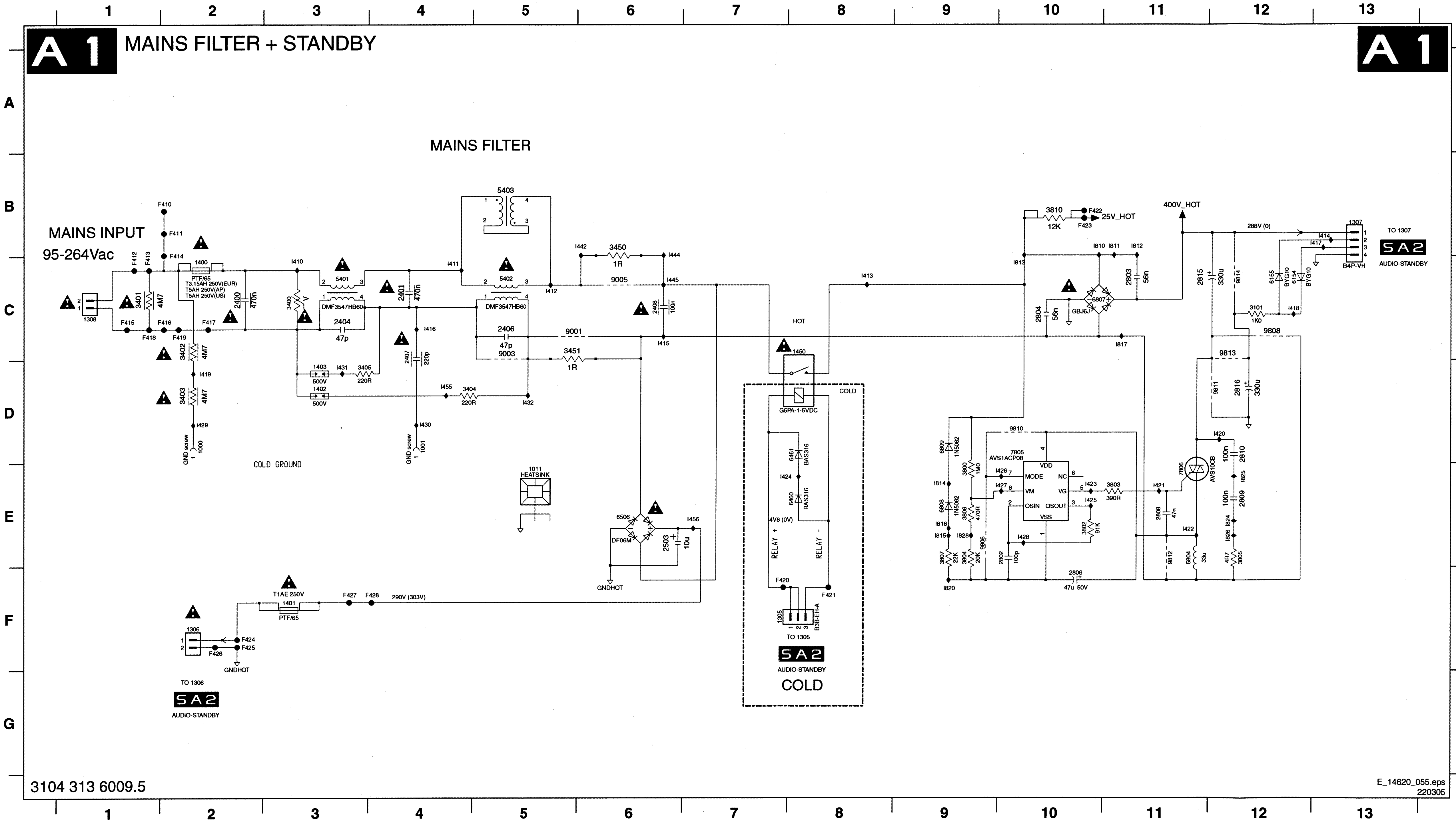
Supply Lines Overview

SUPPLY LINES OVERVIEW


A SUPPLY
SEE ALSO BLOCK DIAGRAM SUPPLY
SA1 CONNECTIONS
B21 CONNECTIONS
H SCART 3
J LED SWITCH PANEL
SA2 STANDBY
SA3 AUDIO
B2 IF/I/O VIDEOPROCESSING
B3A PICNIC
B3B FALCONIC EMBEDDED MEMORY
B3C EAGLE
B3D COLUMBUS
B3E FBX SUPPLY
B4 HOP
B5A OTC FLASH
B5B BACKLIGHT CONTROL
B5C BACKLIGHT CONTROL
B6A AUDIO DEMODULATOR
B6B DOLBY DIGITAL DECODER
B6C DOLBY PROLOGIC PROCESSOR
B6D AUDIO DELAY
B12 MAIN TUNER
B13A MAIN TUNER
B13B SUB TUNER
B13C DC-DC CONVERTER
B14A I/O1 MMC
B14B I/O2 CONNECTIONS
B14C I/O3 SWITCH
B14D I/O4 AUDIO
B14E I/O5
B14F I/O6 DIGITAL INPUTS
B14G I/O7
B15A PIP HIP
B15B PIP SWITCH
B15C PIP MUPPET
B19A HDI A/D CONVERTER
B19B EPLD CONTROL
B19C EPLD OSD
B19D EPLD I/O
B20 SCREEN INTERFACE
E_14620_047.eps
020205

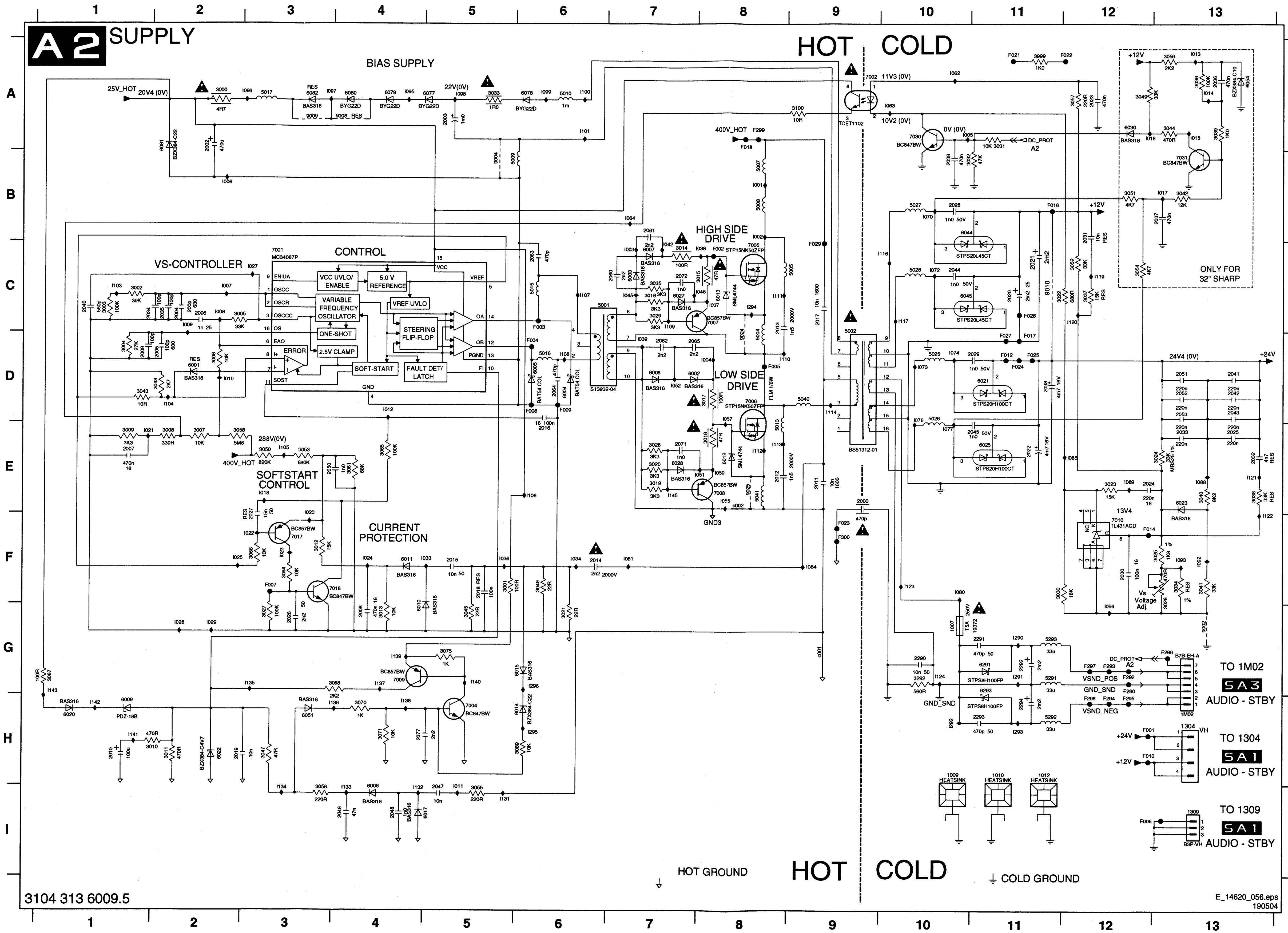
7. Circuit Diagrams and PWB Layouts

PSU (30-32"): Mains Filter and Standby


A1
MAINS FILTER + STANDBY
MAINS FILTER
MAINS INPUT
95-264Vac
1308
3401 4M7
1400 PTF/65
T3.15AH 250V(EUR)
T5AH 250V(AP)
T5AH 250V(US)
2400 470n
3400
5401 DMF3547HB60
2401 470n
2404 47p
5403
5402 DMF3547HB60
2406 47p
9003
9001
3450 1R
9005
3451 1R
2408 100n
2407 220p
3402 4M7
3403 4M7
1403 500V
1402 500V
3405 220R
3404 220R
1000 GND screw
1001 GND screw
COLD GROUND
1011 HEATSINK
6506 DF06M
2503 10u
GNDHOT
T1AE 250V
1401 PTF/65
290V (303V)
1306
GNDHOT
TO 1306
SA2
AUDIO-STANDBY
HOT
1450
COLD
GSPA-1-5VDC
6461 BAS316
6460 BAS316
4V8 (0V)
RELAY +
RELAY -
1305 B3B-EH-A
TO 1305
SA2
AUDIO-STANDBY
COLD
3810 12K
25V_HOT
400V_HOT
288V (0)
1307 B4P-VH
TO 1307
SA2
AUDIO-STANDBY
2803 56n
2804 56n
6807 GBJ6J
2815 330u
6155 BYG10
6154 BYG10
3101 1K0
9808
9813
2816 330u
9811
9810
7805 AVS1ACP08
VDD MODE VM OSIN NC VG OSOUT VSS
3803 390R
3802 91K
6809 1N5062
6808 1N5062
3800 1M0
3806 470R
3807 22K
3804 22K
9806
2802 100p
2806 47u 50V
7806 AVS10CB
2810 100n
2809 100n
2808 47n
9812
5804 33u
3805 4?7
3104 313 6009.5
E_14620_055.eps
220305

1000	D2
1001	D4
1011	E5
1305	F7
1306	F2
1307	B13
1308	C1
1400	C2
1401	F3
1402	D3
1403	D3
1450	C8
2400	C2
2401	C4
2404	C3
2406	C5
2407	C4
2408	C6
2503	E6
2802	E10
2803	C11
2804	C10
2806	F10
2808	E11
2809	E12
2810	D12
2815	C11
2816	D12
3101	C12
3400	C3
3401	C1
3402	C2
3403	D2
3404	D4
3405	D3
3450	B6
3451	C6
3800	E9
3802	E10
3803	E11
3804	E9
3805	E12
3806	E9
3807	E9
3810	B10
5401	C3
5402	C5
5403	B5
5804	E11
6154	C12
6155	C12
6460	E8
6461	D8
6506	E6
6807	C10
6808	E9
6809	D9
7805	D10
7806	E11
9001	C5
9003	C5
9005	C6
9806	E9
9808	C12
9810	D10
9811	D12
9812	E11
9813	C12
9814	C12
F410	B2
F411	B2
F412	C1
F413	C1
F414	C2
F415	C1
F416	C2
F417	C2
F418	C1
F419	C2
F420	F7
F421	F8
F422	B10
F423	B10
F424	F2
F425	F2
F426	F2
F427	F3
F428	F4
I410	C3
I411	C4
I412	C5
I413	C8
I414	B13
I415	C6
I416	C4
I417	B13
I418	C12
I419	D2
I420	D12
I421	E11
I422	E11
I423	E10
I424	E7
I425	E10
I426	E10
I427	E10
I428	E10
I429	D2
I430	D4
I431	D3
I432	D5
I442	B6
I444	B6
I445	C6
I455	D4
I456	E7
I810	B10
I811	B11
I812	B11
I813	C10
I814	E9
I815	E9
I816	E9
I817	C11
I820	F9
I824	E12
I825	E12
I826	E12
I828	E9

PSU (30-32"): Supply


A2
SUPPLY
BIAS SUPPLY
HOT
COLD
25V_HOT
20V4 (0V)
22V(0V)
400V_HOT
11V3 (0V)
10V2 (0V)
0V (0V)
DC_PROT
A2
VS-CONTROLLER
CONTROL
MC34067P
VCC UVLO/ ENABLE
5.0 V REFERENCE
VARIABLE FREQUENCY OSCILLATOR
VREF UVLO
ONE-SHOT
STEERING FLIP-FLOP
ERROR
2.5V CLAMP
SOFT-START
FAULT DET/ LATCH
HIGH SIDE DRIVE
LOW SIDE DRIVE
STP15NK50ZFP
S13932-04
BS51312-01
TCET1102
288V(0V)
SOFTSTART CONTROL
CURRENT PROTECTION
STPS20L45CT
STPS20H100CT
STPS8H100FP
+12V
24V4 (0V)
+24V
13V4
TL431ACD
Vs Voltage Adj.
ONLY FOR 32" SHARP
TO 1M02
SA3
AUDIO - STBY
VSND_POS
GND_SND
VSND_NEG
TO 1304
SA1
AUDIO - STBY
TO 1309
SA1
AUDIO - STBY
HEATSINK
HOT GROUND
COLD GROUND
3104 313 6009.5
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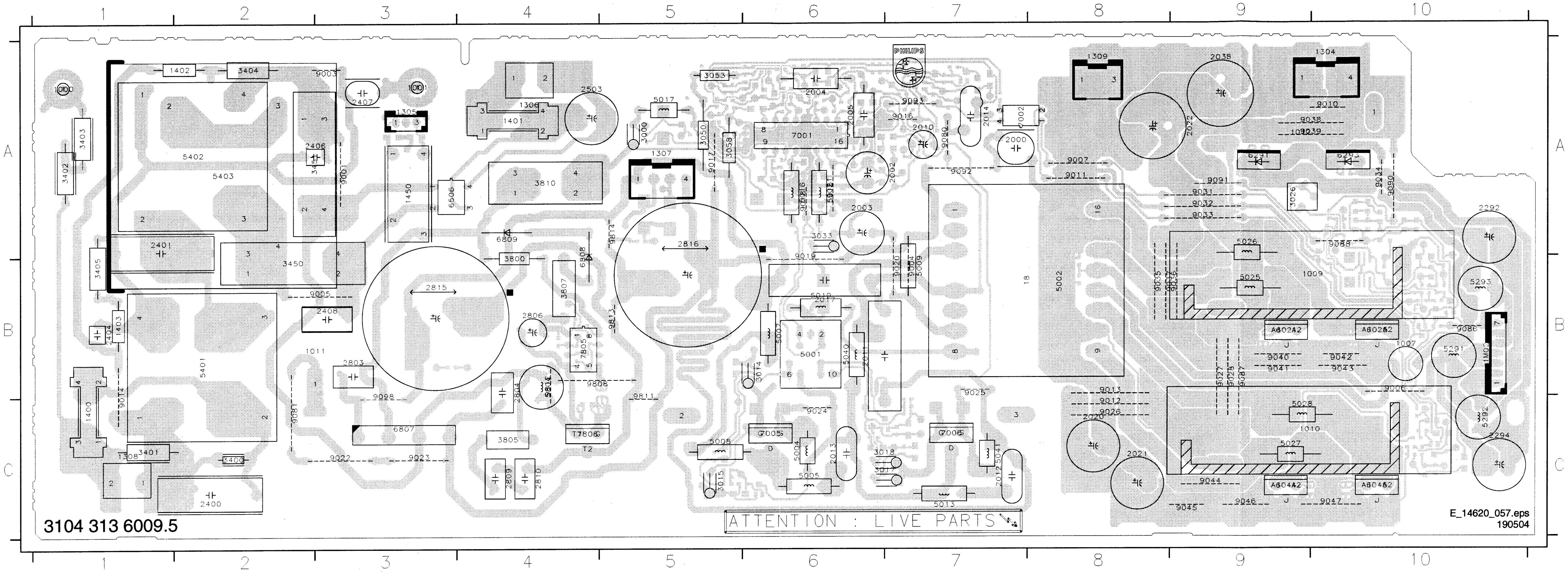
190504

1007	G10
1009	H10
1010	H11
1012	H11
1304	H13
1309	I13
1M02	H13
2000	E9
2002	A2
2003	A5
2004	C2
2005	D2
2006	C2
2007	E1
2008	G4
2009	D1
2010	H1
2011	E9
2012	E8
2013	C8
2014	F6
2015	F5
2016	E6
2017	C9
2018	F5
2019	H2
2020	C11
2021	C11
2022	E11
2023	A12
2024	E12
2025	E13
2026	G3
2027	F3
2028	B10
2029	D11
2030	F12
2031	B12
2032	E13
2033	E13
2034	C1
2035	C2
2036	A13
2037	B13
2038	D11
2039	B10
2040	C1
2041	D13
2042	D13
2043	D13
2044	C10
2045	E11
2046	I4
2047	I5
2048	I4
2050	E3
2051	D13
2052	D13
2053	D13
2060	C7
2061	B7
2062	D7
2063	C6
2064	D6
2065	D7
2071	E7
2072	C7
2077	H4
2290	G10
2291	G11
2292	G11
2293	H11
2294	H11
3000	A2
3001	F5
3002	C1
3003	C1
3004	D1
3005	C2
3006	D2
3007	E2
3008	E2
3009	E1
3010	H2
3011	H2
3012	F3
3013	G4
3014	C7
3015	C8
3016	C7
3017	D8
3018	E8
3019	E7
3020	E7
3021	G6
3022	C11
3023	E12
3024	E13
3025	F13
3026	G13
3027	G3
3028	E7
3029	C7
3030	F11
3031	A11
3032	B10
3033	A5
3034	F13
3035	C7
3036	A13
3037	C12
3038	E13
3039	A13
3040	E13
3041	F13
3042	B13
3043	D1
3044	A13
3045	G5
3046	F6
3047	H3
3048	D2
3049	A12
3050	E3
3051	B12
3052	C12
3053	E3
3054	C12
3055	I5
3056	I3
3057	A12
3058	E2
3059	A13
3061	E4
3064	F3
3065	E4
3066	F3
3067	G1
3068	G4
3070	H4
3071	H4
3075	G5
3089	H6
3100	A9
3292	G10
3999	A11
5001	C6
5002	D9
5004	D8
5005	C9
5007	B8
5008	B8
5009	B5
5010	A6
5013	E8
5015	C6
5016	D6
5017	A3
5025	D10
5026	D10
5027	B10
5028	C10
5040	D9
5041	E8
5291	G11
5292	H11
5293	G11
6001	D2
6002	D7
6003	C7
6004	D6
6005	D6
6006	I4
6007	C7
6008	D7
6009	H1
6010	G4
6011	F4
6012	E8
6013	C8
6014	H6
6015	G6
6017	I5
6020	H1
6021	D11
6022	H2
6023	E13
6025	E11
6027	C7
6028	E7
6030	A12
6044	B10
6045	C10
6051	H3
6054	A13
6077	A5
6078	A6
6079	A4
6080	A4
6081	A2
6082	A3
6291	G11
6293	G11
7001	C3
7002	A9
7004	H5
7005	C8
7006	D8
7007	C8
7008	E8
7009	G4
7010	F12
7017	F3
7018	F3
7030	A10
7031	B13
9002	G13
9004	B5
9008	A4
9009	A3
9010	C11
9024	D8
9025	E8
F001	H12
F002	C8
F003	C6
F004	D6
F005	D8
F006	I12
F007	F3
F008	D6
F009	D6
F010	H12
F012	D11
F014	F12
F016	B11
F017	D11
F018	A8
F021	A11
F022	A12
F023	F9
F024	D11
F025	D11
F027	D11
F028	C11
F029	C9
F290	G12
F292	G12
F293	G12
F294	H12
F295	H12
F296	G13
F297	G12
F298	H12
F299	A8
F300	F9
I001	B8
I002	B8
I003	C7
I004	D8
I005	A10
I006	B2
I007	C2
I008	C2
I009	C2
I010	D2
I011	I5
I012	D4
I013	A13
I014	A13
I015	A13
I016	A12
I017	B13
I018	E3
I020	F3
I021	E1
I022	F3
I023	F3
I024	F4
I025	F2
I027	C3
I028	G2
I029	G2
I033	F5
I034	F6
I036	F5
I037	C8
I038	C8
I039	D7
I042	C7
I045	C7
I046	C8
I051	E8
I052	D7
I055	E8
I057	D8
I059	E8
I062	A10
I063	A10
I064	B7
I070	B10
I072	C10
I073	D10
I074	D10
I076	D10
I077	E10
I080	F10
I081	F7
I084	F9
I085	E12
I088	E13
I089	E12
I092	F13
I093	F13
I094	G12
I095	A4
I096	A3
I097	A3
I098	A5
I099	A6
I100	A6
I101	A6
I103	C1
I104	D2
I105	E3
I106	E6
I107	C6
I108	D6
I109	C7
I110	D8
I111	C8
I112	E8
I113	E8
I114	D9
I116	C10
I117	C10
I119	C12
I120	C12
I121	E13
I122	F13
I123	F10
I124	G10
I131	I5
I132	I4
I133	I4
I134	I3
I135	G3
I136	H4
I137	G4
I138	H4
I139	G4
I140	G5
I141	H1
I142	H1
I143	G1
I145	E7
I290	G11
I291	G11
I292	H10
I293	H11
I294	C8
I295	H6
I296	G6
c001	G9
c002	E8

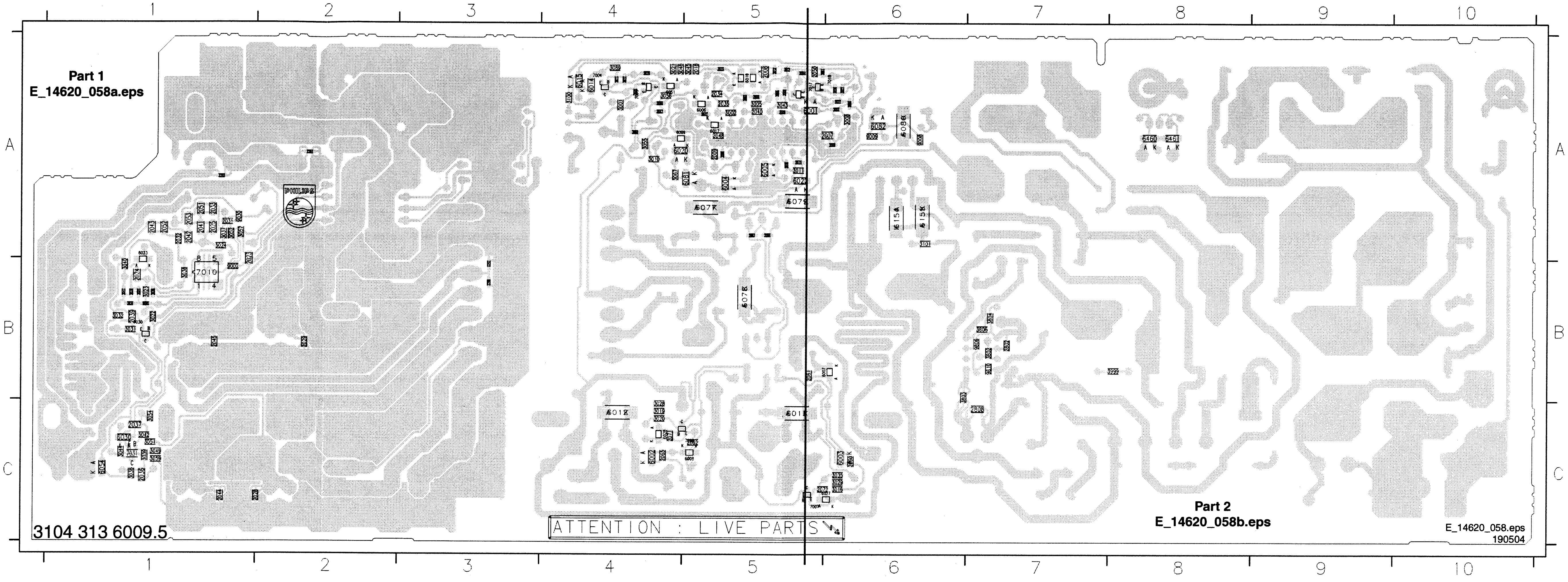
Layout PSU (30-32") (Top Side)

1000 A1	1304 A10	1401 A4	2003 A6	2014 A7	2294 C10	2503 A4	2816 A5	3033 A6	3403 A1	3807 B4	5008 C5	5025 B9	5292 C10	6025 B10	6808 A4	7806 C4	9010 A10	9018 A6	9025 B7	9034 A10	9041 B9	9080 A7	9092 A7	9814 A5
1001 A3	1305 A3	1402 A2	2004 A6	2017 B6	2400 C2	2803 B3	3000 A5	3050 A5	3404 A2	3810 A4	5009 B7	5026 A9	5293 B10	6044 C10	6809 A4	9001 A3	9011 A8	9019 A6	9026 C8	9035 B8	9042 B10	9081 C2	9093 A7	
1007 B10	1306 A4	1403 B1	2005 A6	2020 C8	2401 B1	2804 B4	3014 B6	3053 A5	3405 B1	5001 B6	5010 B6	5027 C9	5401 B2	6045 C10	7001 A6	9003 A3	9012 C8	9020 B7	9027 B9	9036 B9	9043 B10	9086 B10	9098 B3	
1009 B9	1307 A5	1450 A3	2010 A7	2021 C8	2404 B1	2806 B4	3015 C5	3058 A5	3450 A2	5002 A7	5013 C7	5028 C9	5402 A1	6291 A9	7002 A8	9004 A7	9013 B8	9021 A6	9028 B9	9037 B8	9044 C9	9087 B9	9808 B5	
1010 C9	1308 C1	1M02 B10	2011 B7	2022 A8	2406 A3	2809 C4	3017 C7	3400 C2	3451 A3	5004 C6	5015 A6	5040 B6	5403 A3	6293 A10	7005 C6	9005 B3	9014 B1	9022 C3	9031 A9	9038 A9	9045 C9	9088 A10	9811 B5	
1011 C3	1309 A8	2000 A7	2012 C7	2038 A9	2407 A3	2810 C4	3018 C7	3401 C2	3800 A4	5005 C6	5016 A6	5041 C7	5804 B4	6506 A4	7006 C7	9006 C10	9016 A7	9023 C3	9032 A9	9039 A9	9046 C9	9090 A10	9812 B4	
1012 A9	1400 C1	2002 A7	2013 C6	2292 A10	2408 B3	2815 A3	3026 A9	3402 A1	3805 C4	5007 B6	5017 A5	5291 B10	6021 B9	6807 C3	7805 B4	9007 A8	9017 A5	9024 C6	9033 A9	9040 B9	9047 C10	9091 A9	9813 B5	

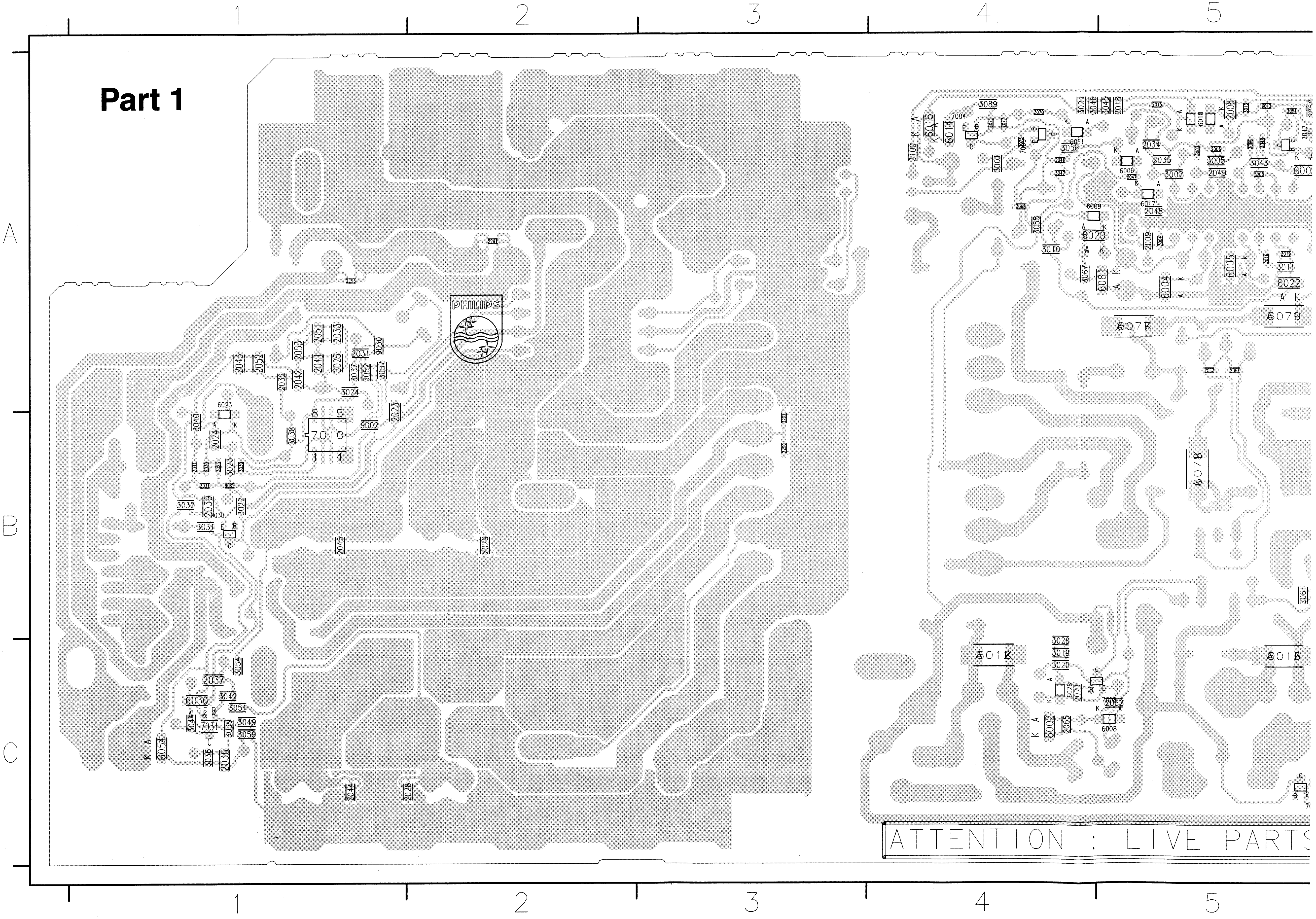


Layout PSU (30-32") (Overview Bottom Side)

2006	A5
2007	A6
2008	A5
2009	A5
2015	A5
2016	A5
2018	A5
2019	A5
2023	B1
2024	B1
2025	A1
2026	A6
2027	A6
2028	C2
2029	B2
2030	B1
2031	A1
2032	A1
2033	A1
2034	A5
2035	A5
2036	C1
2037	C1
2039	B1
2040	A5
2041	A1
2042	A1
2043	A1
2044	C1
2045	B1
2046	A4
2047	A5
2048	A5
2050	A5
2051	A1
2052	A1
2053	A1
2060	C6
2061	B5
2062	C5
2063	A5
2064	A5
2065	C4
2071	C4
2072	C5
2077	A4
2290	B3
2291	A2
2293	A1
2802	B7
2808	C7
3001	A4
3002	A5
3003	A5
3004	A5
3005	A5
3006	A5
3007	A6
3008	A6
3009	A6
3010	A4
3011	A5
3012	A5
3013	A5
3016	C6
3019	C4
3020	C4
3021	A4
3022	B1
3023	B1
3024	A1
3025	B1
3027	A6
3028	C4
3029	C6
3030	B1
3031	B1
3032	B1
3034	B1
3035	C6
3036	C1
3037	A1
3038	B1
3039	C1
3040	B1
3041	B1
3042	C1
3043	A5
3044	C1
3045	A5
3046	A4
3047	A4
3048	A5
3049	C1
3051	C1
3052	A1
3054	C1
3055	A4
3056	A4
3057	A1
3059	C1
3061	A5
3064	A5
3065	A6
3066	A5
3067	A4
3068	A4
3070	A4
3071	A4
3075	A4
3089	A4
3100	A4
3101	A6
3292	B3
3802	B7
3803	B6
3804	B7
3806	B7
3999	B8
6001	A5
6002	C4
6003	C6
6004	A5
6005	A5
6006	A5
6007	B6
6008	C5
6009	A4
6010	A5
6011	A5
6012	B4
6013	C5
6014	A4
6015	A4
6017	A5
6020	A4
6022	A5
6023	A1
6027	C6
6028	C4
6030	C1
6051	A4
6054	C1
6077	A5
6078	B5
6079	A5
6080	A6
6081	A4
6082	A6
6154	A6
6155	A6
6460	A8
6461	A8
7004	A4
7007	C5
7008	C5
7009	A4
7010	A1
7017	A5
7018	A6
7030	B1
7031	C1
9002	B1
9008	A6
9009	A6
9030	A1
9085	B1
9806	B7
9810	B7



Layout PSU (30-32") (Part 1 Bottom Side)


Part 1
1
2
3
4
5
A
B
C
PHILIPS
7010
6023
3040
2024
3038
9002
2023
3024
2043
2052
2053
2051
2033
2041
2025
2031
9030
2032
2042
3037
3052
3057
3023
3032
2039
3022
3031
2045
2029
2037
3054
6030
3042
3051
3047
7031
3039
3049
3059
6054
3036
2036
2044
2028
3100
6015
6014
7004
3089
3001
3021
3046
3045
2018
3056
6051
2034
2035
3002
6006
6010
2008
3005
2040
3043
6017
2048
6009
6020
3055
3010
3067
6081
2009
6004
6005
3011
6022
6071
6079
6078
6012
6013
3028
3019
3020
6028
2071
2062
7006
6008
6002
2065
2061
ATTENTION : LIVE PARTS

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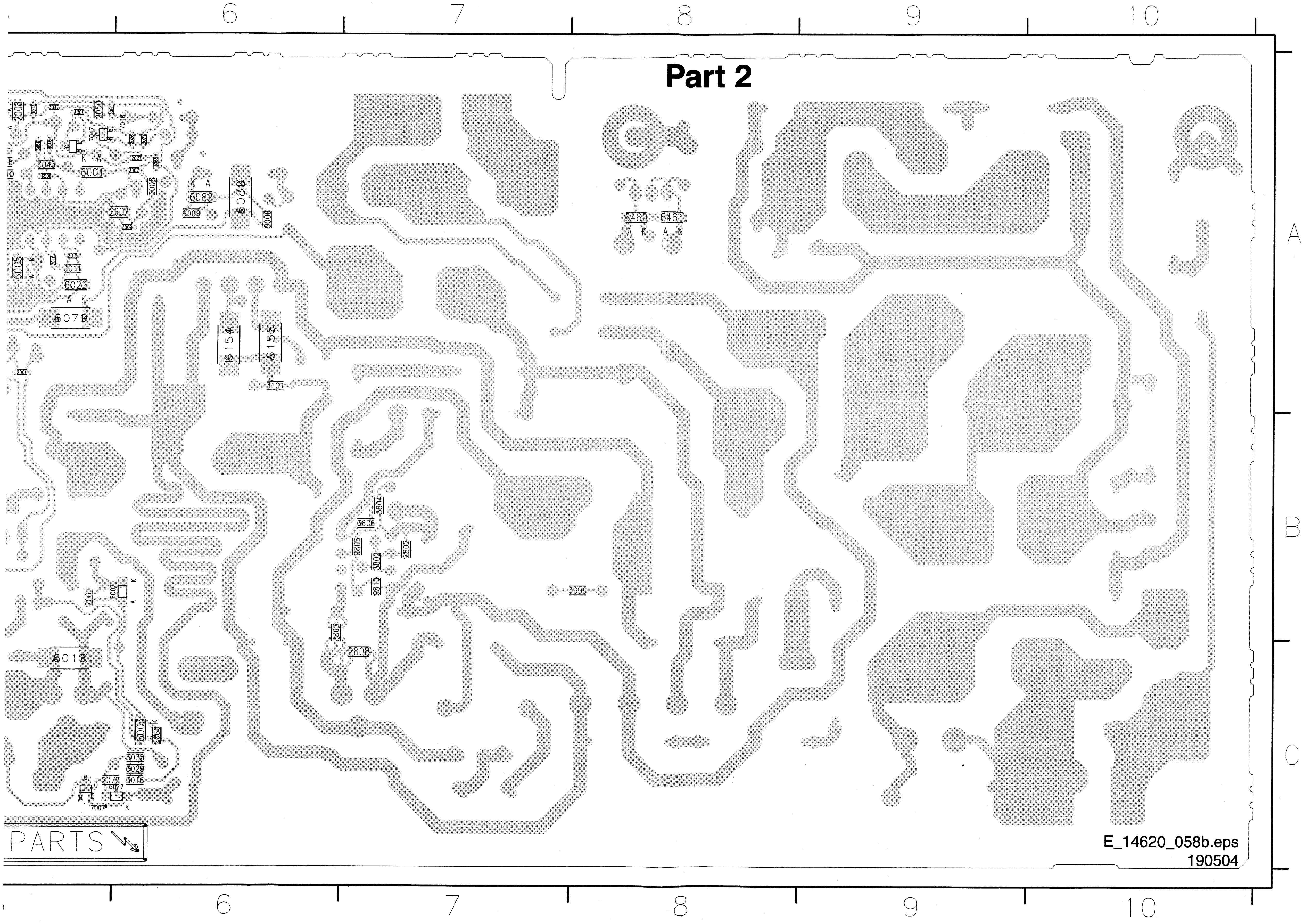
Layout PSU (30-32") (Part 2 Bottom Side)


6
7
8
9
10
Part 2
A
B
C
2008
2050
7018
7017
3043
K A
6001
3008
2007
K A
6082
6080
9009
9008
6460
6461
A K
A K
6005
3011
6022
A K
6079
6154
6155
3101
3804
3806
9806
3802
2802
9810
3999
3803
2808
2061
6007
6013
6003
2050
3035
3029
3016
2072
6027
7007
PARTS
E_14620_058b.eps
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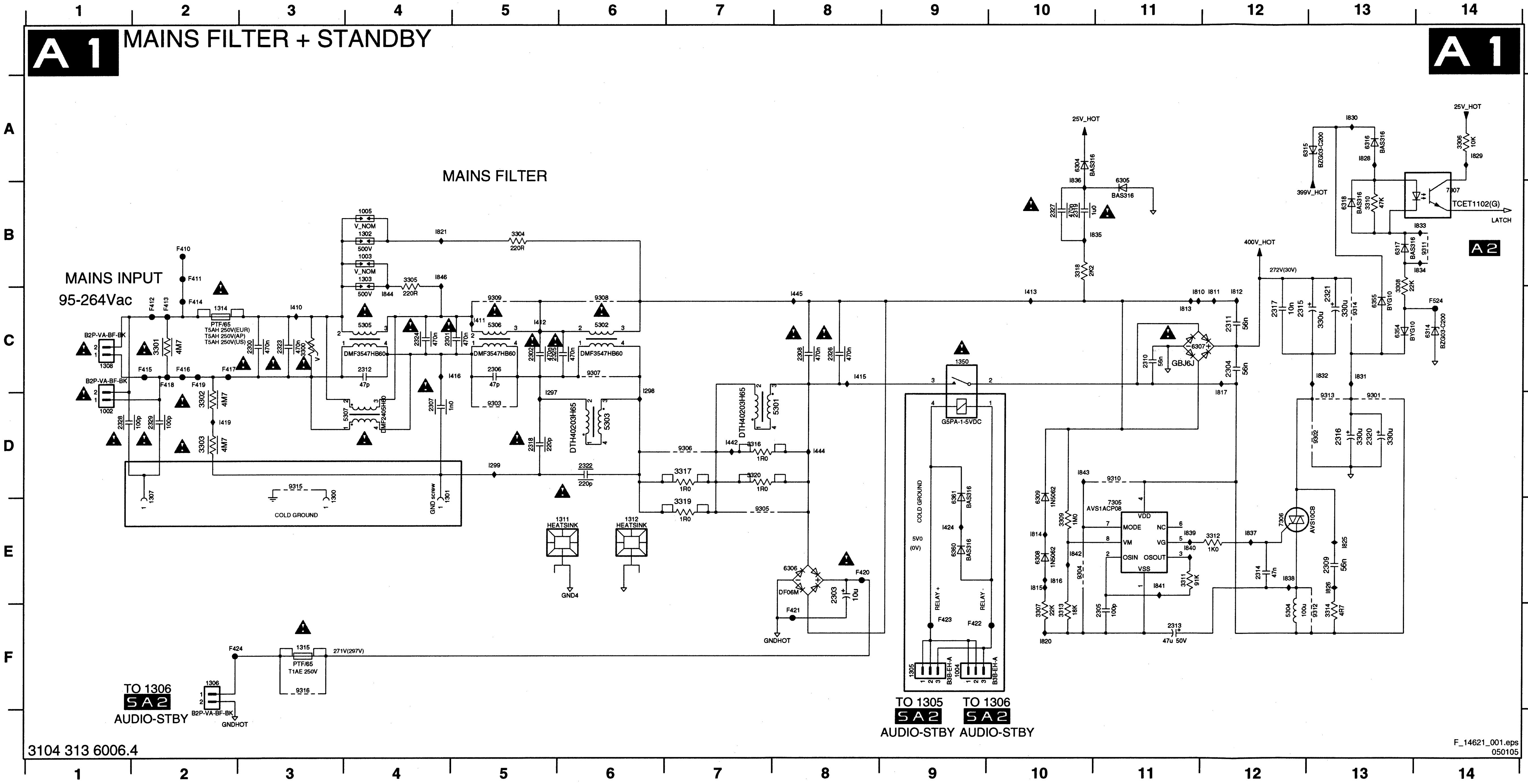
PSU (37"): Mains Filter and Standby

1002 D1	1304 B4	1311 E6	2301 C4	2307 D4	2313 F11	2319 B10	2325 C5	3301 C2	3307 F10	3313 F10	3320 D7	5306 C5	6308 E10
1004 F9	1305 F9	1312 E6	2302 C5	2308 C8	2314 E12	2320 D13	2326 C8	3302 D2	3308 B13	3314 F13	5301 D8	5307 D4	6309 D10
1300 D3	1306 F2	1314 C2	2303 E8	2309 E13	2315 C12	2321 C13	2327 B10	3303 D2	3309 E10	3316 D7	5302 C6	6304 A10	6314 C14
1301 D4	1307 D2	1315 F3	2304 C12	2310 C11	2316 D13	2322 D6	2328 D1	3304 B5	3310 B13	3317 D7	5303 D6	6305 B11	6315 A12
1302 B4	1308 C1	1350 C9	2305 F11	2311 C12	2317 C12	2323 C3	2329 D2	3305 B4	3311 E11	3318 B10	5304 F12	6306 E8	6316 A13
1303 B4	1309 B4	2300 C3	2306 C5	2312 C4	2318 D5	2324 C4	3300 C3	3306 A14	3312 E12	3319 E7	5305 C4	6307 C11	6317 B13

6318 B13	7306 E12	9305 E7	9311 B14	F410 B2	F416 C2	F422 F9	I299 D5	I416 C5	I810 C11	I816 E10	I828 A13	I834 B14	I840 E11
6354 C13	7307 B14	9306 D7	9312 F13	F411 B2	F417 C2	F423 F9	I410 C3	I419 D2	I811 C12	I817 D12	I829 A14	I835 B11	I841 E11
6355 C13	9301 D13	9307 C6	9313 D13	F412 C2	F418 C2	F424 F2	I411 C5	I424 E9	I812 C12	I820 F10	I830 A13	I836 A10	I842 E10
6360 E9	9302 D13	9308 C6	9314 C13	F413 C2	F419 C2	F524 C14	I412 C5	I442 D7	I813 C11	I821 B4	I831 C13	I837 E12	I843 D10
6361 D9	9303 D5	9309 C5	9315 D3	F414 C2	F420 E8	I297 D5	I413 C10	I444 D8	I814 E10	I825 E13	I832 C13	I838 E12	I844 C4
7305 E11	9304 E10	9310 D11	9316 F3	F415 C2	F421 F8	I298 C6	I415 C8	I445 C8	I815 E10	I826 E13	I833 B14	I839 E11	I846 B4


A1
MAINS FILTER + STANDBY
MAINS FILTER
MAINS INPUT
95-264Vac
B2P-VA-BF-BK
1308
1002
F410
F411
F412
F413
F414
F415
F416
F417
F418
F419
1314
PTF/65
T5AH 250V(EUR)
T5AH 250V(AP)
T5AH 250V(US)
3301 4M7
3302 4M7
3303 4M7
I419
2328 100p
2329 100p
2300 470n
2323 470n
3300
I410
1005 V_NOM
1302 500V
1003 V_NOM
1303 500V
I844
3305 220R
I846
I821
3304 220R
5305 DMF3547HB60
2312 47p
5307 DMF2405H60
2324 470n
2301 470n
I411
I416
2307 1n0
5306 DMF3547HB60
2306 47p
9303
I412
2302 470n
2325 470n
5302 DMF3547HB60
9309
9308
9307
I297
I298
2318 220p
DTH40203H65
5303
I299
2322 220p
9306
3317 1R0
3319 1R0
1307
9315
1300
COLD GROUND
GND screw
1301
1311 HEATSINK
1312 HEATSINK
GND4
I445
2308 470n
2326 470n
I415
DTH40203H65
5301
I442
3316 1R0
I444
3320 1R0
9305
6306 DF06M
2303 10u
F420
F421
GNDHOT
1350
G5PA-1-5VDC
COLD GROUND
5V0
(0V)
6361 BAS316
I424
6360 BAS316
RELAY +
RELAY -
F423
F422
1305 B3B-EH-A
1004 B3B-EH-A
TO 1305
SA2
AUDIO-STBY
TO 1306
SA2
AUDIO-STBY
F424
1315
PTF/65
T1AE 250V
9316
271V(297V)
1306
B2P-VA-BF-BK
GNDHOT
TO 1306
SA2
AUDIO-STBY
I413
25V_HOT
6304 BAS316
I836
6305 BAS316
2327 470n
2319 1u0
I835
3318 2K2
I810
I811
I812
I813
2311 56n
6307 GBJ6J
2310 56n
2304 56n
I817
400V_HOT
272V(30V)
2317 10n
2315 330u
2321 330u
9314
I832
I831
9313
9301
9302
2316 330u
2320 330u
I830
6315 BZG03-C200
399V_HOT
6316 BAS316
I828
6318 BAS316
3310 47K
7307
TCET1102(G)
LATCH
25V_HOT
3306 10K
I829
I833
6317 BAS316
9311
I834
3308 22K
6355 BYG10
6354 BYG10
F524
6314 BZG03-C200
A2
I843
9310
6309 1N5062
3309 1M0
7305 AVS1ACP08
VDD
MODE
NC
VM
VG
OSIN
OSOUT
VSS
I814
6308 1N5062
I842
9304
I816
I815
3307 22K
3313 18K
I820
2305 100p
I839
I840
3312 1K0
3311 91K
I841
2313 47u 50V
I837
2314 47n
7306 AVS10CB
I838
5304 100u
9312
I825
2309 56n
I826
3314 4R7
3104 313 6006.4
F_14621_001.eps
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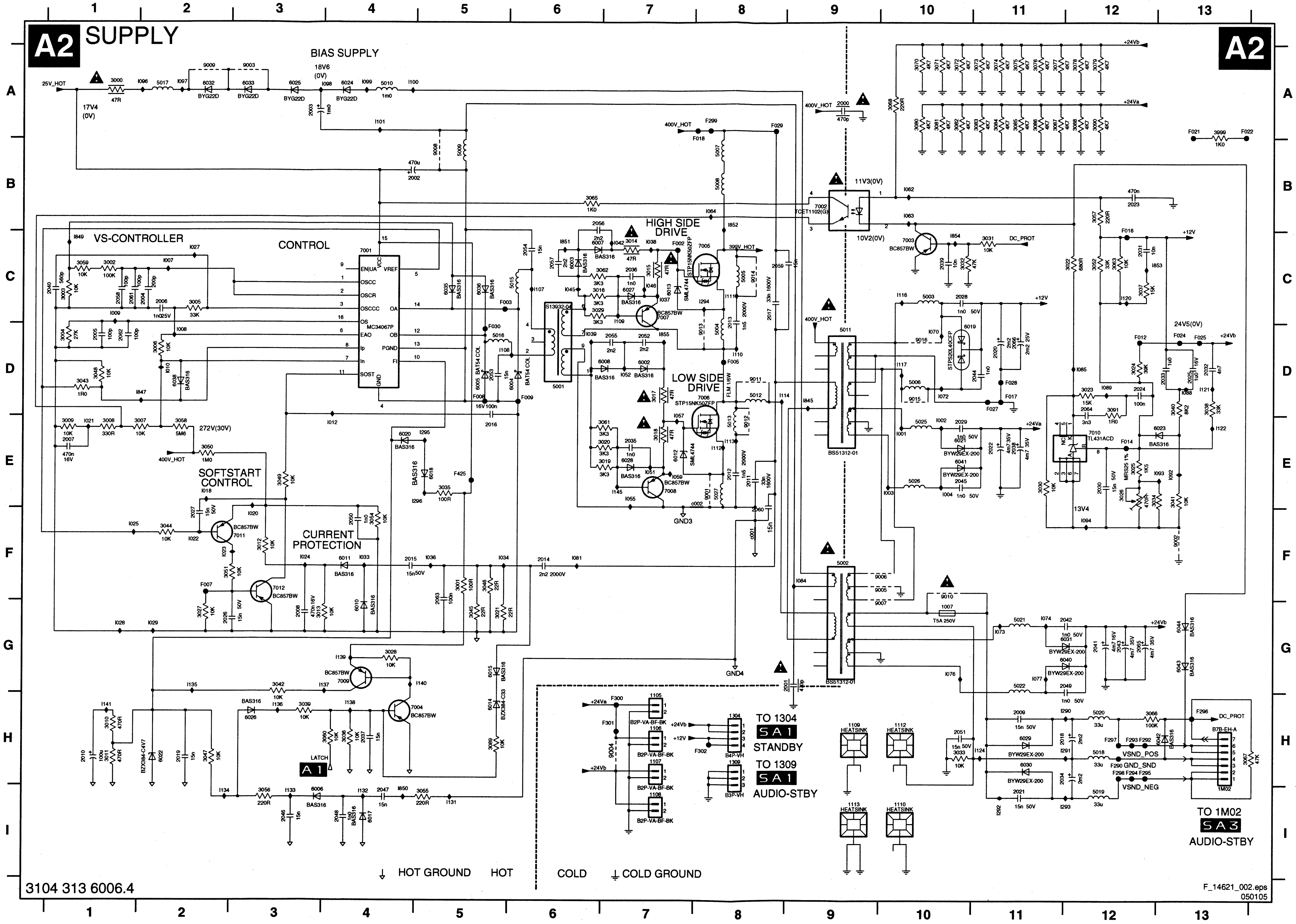
PSU (37"): Supply


A2
SUPPLY
BIAS SUPPLY
25V_HOT
17V4 (0V)
18V6 (0V)
VS-CONTROLLER
CONTROL
7001 MC34067P
ENIUA
OSCC
OSCR
OSCCC
OS
EAO
Ip
In
SOST
VCC
VREF
OA
OB
PGND
FI
GND
HIGH SIDE DRIVE
STP15NK50ZFP
LOW SIDE DRIVE
SOFTSTART CONTROL
CURRENT PROTECTION
272V(30V)
400V_HOT
399V_HOT
11V3(0V)
10V2(0V)
TCET1102(G)
DC_PROT
+12V
+24Vb
+24Va
24V5(0V)
TL431ACD
13V4
BS51312-01
STPS20L40CFP
BYW29EX-200
T5A 250V
LATCH
A1
TO 1304
SA1
STANDBY
TO 1309
SA1
AUDIO-STBY
TO 1M02
SA3
AUDIO-STBY
B2P-VA-BF-BK
B4P-VH
B3P-VH
B7B-EH-A
VSND_POS
GND_SND
VSND_NEG
HEATSINK
GND3
GND4
HOT GROUND
HOT
COLD
COLD GROUND
3104 313 6006.4
F_14621_002.eps
050105
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6
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8
9
10
11
12
13
A
B
C
D
E
F
G
H
I

1007	G10
1105	H7
1106	H7
1107	H7
1108	I7
1109	H9
1110	I10
1112	H10
1113	I9
1304	H8
1309	H8
1M02	I13
2000	A9
2001	G9
2002	B4
2003	A3
2004	C2
2005	D1
2006	C2
2007	E1
2008	G3
2009	H11
2010	H1
2011	E8
2012	E8
2013	C8
2014	F6
2015	F4
2016	E5
2017	C8
2018	H12
2019	H2
2020	D11
2021	I11
2022	E11
2023	B12
2024	D12
2025	D13
2026	G2
2027	F2
2028	C10
2029	E10
2030	E12
2031	C12
2032	D13
2033	D13
2034	H12
2035	E7
2036	C7
2037	H4
2038	E11
2039	C10
2040	C1
2041	G12
2042	G12
2043	G12
2044	D11
2045	E10
2046	I3
2047	I4
2048	I4
2049	G12
2050	F4
2051	H10
2052	D7
2053	D5
2054	C6
2055	D7
2056	B6
2057	C6
2058	C1
2059	C8
2060	E8
2061	C1
2062	D1
2063	F5
2064	D12
2065	G12
2066	D11
3000	A1
3001	F5
3002	C1
3003	C1
3004	D1
3005	C2
3006	D2
3007	E2
3008	E1
3009	E1
3010	H1
3011	H1
3012	F3
3013	G3
3014	C7
3015	C7
3016	C6
3017	D7
3018	E7
3019	E7
3020	E7
3021	G5
3022	C12
3023	D12
3024	D12
3025	E12
3026	E12
3027	G2
3028	G4
3029	C6
3030	E11
3031	C11
3032	C10
3033	H10
3034	E12
3035	E5
3036	H4
3037	C12
3038	D13
3039	H3
3040	D13
3041	E13
3042	G3
3043	D1
3044	F2
3045	G5
3046	F5
3047	H2
3048	D1
3049	E3
3050	E2
3051	F2
3052	C12
3054	F4
3055	I5
3056	I3
3057	B12
3058	E2
3059	C1
3060	H4
3061	E7
3062	C6
3063	C12
3065	B6
3066	H12
3067	H13
3068	A10
3070	A10
3071	A10
3072	A10
3073	A11
3074	A11
3075	A11
3076	A11
3077	A11
3078	A12
3079	A12
3080	A10
3081	A10
3082	A10
3083	A11
3084	A11
3085	A11
3086	A11
3087	A11
3088	A12
3089	H5
3090	A12
3091	D12
3999	A13
5001	D6
5002	F9
5003	C10
5004	D8
5005	C8
5006	D10
5007	B8
5008	B8
5009	B5
5010	A4
5011	D9
5012	D8
5013	E8
5015	C6
5016	D5
5017	A2
5018	H12
5019	I12
5020	H12
5021	G11
5022	G11
5025	E10
5026	E10
5027	E8
6002	D7
6003	C6
6004	D6
6005	D5
6006	I3
6007	C6
6008	D7
6010	G4
6011	F4
6012	E7
6013	C7
6014	H5
6015	G5
6017	I4
6018	E5
6019	D10
6020	E4
6021	E10
6022	H2
6023	E13
6024	A4
6025	A3
6026	H3
6027	C7
6028	E7
6029	H11
6030	H11
6031	G11
6032	A2
6033	A3
6035	C5
6036	C5
6038	D2
6040	G12
6041	E10
6042	H13
6043	G13
6044	G13
7001	C4
7002	B9
7003	C10
7004	H4
7005	C8
7006	D8
7007	C7
7008	E7
7009	G4
7010	E12
7011	F3
7012	F3
9001	E8
9002	F13
9003	A3
9004	H7
9005	F10
9006	F10
9007	G10
9008	B5
9009	A2
9010	F10
9011	D8
9012	E8
9013	D8
9014	C8
9015	D10
9016	D10
F002	C7
F003	C5
F005	D8
F007	F2
F008	D5
F009	D6
F012	D12
F014	E12
F016	C12
F017	D11
F018	B8
F021	A13
F022	A13
F024	D13
F025	D13
F027	D11
F028	D11
F029	A8
F030	D5
F290	H12
F292	H12
F293	H12
F294	H12
F295	H12
F296	H13
F297	H12
F298	H12
F299	A8
F300	H7
F301	H7
F302	H8
F425	E5
I001	E10
I002	E10
I003	E10
I004	E10
I007	C2
I008	D2
I009	C1
I010	D2
I012	E4
I018	E2
I020	F3
I021	E1
I022	F2
I023	F2
I024	F3
I025	F1
I027	C2
I028	G1
I029	G2
I033	F4
I034	F5
I036	F5
I037	C7
I038	C7
I039	D6
I042	C7
I045	C6
I046	C7
I051	E7
I052	D7
I055	E7
I057	D7
I059	E7
I062	B10
I063	B10
I064	B8
I070	D10
I072	D10
I073	G11
I074	G11
I076	G10
I077	G11
I081	F6
I084	F9
I085	D12
I088	D13
I089	D12
I092	E13
I093	E13
I094	F12
I096	A2
I097	A2
I098	A4
I099	A4
I100	A4
I101	A4
I107	C6
I108	D5
I109	C7
I110	D8
I111	C8
I112	E8
I113	E8
I114	D8
I116	C10
I117	D10
I120	C12
I121	D13
I122	E13
I124	H11
I131	I5
I132	I4
I133	I3
I134	I2
I135	G2
I136	H3
I137	G4
I138	H4
I139	G4
I140	G5
I141	H1
I145	E7
I290	H12
I291	H12
I292	I11
I293	I12
I294	C8
I295	E5
I296	E5
I845	D9
I847	D2
I849	C1
I850	I4
I851	C6
I852	B8
I853	C12
I854	C10
I855	D7
c001	F8
c002	E8

Layout PSU (37") (Top Side)

1002	E1
1003	E2
1004	A5
1005	E2
1007	F8
1105	B10
1106	B10
1107	D10
1108	E10
1109	B8
1110	C8
1112	F8
1113	E9
1300	C7
1301	C1
1302	E2
1303	E2
1304	D10
1305	A5
1306	A5
1307	F1
1308	E1
1309	C10
1311	E4
1312	D3
1314	F2
1315	A6
1350	A5
1M02	E10
2000	B7
2001	E7
2002	D5
2003	F7
2004	E5
2005	D4
2010	D6
2011	B6
2012	F6
2013	F5
2014	C6
2017	A5
2018	E9
2020	D10
2022	B9
2034	F9
2038	B10
2041	E10
2043	E8
2059	A5
2060	B6
2065	E10
2066	D10
2300	E2
2301	C2
2302	B2
2303	A5
2304	C3
2306	B1
2307	D1
2308	A5
2309	C5
2310	C3
2311	D3
2312	D2
2313	C6
2314	C5
2315	B3
2316	D2
2317	B3
2318	C1
2319	D4
2320	E3
2321	B4
2322	B1
2323	E2
2324	C2
2325	B2
2326	A5
2327	E4
2328	F1
2329	F1
3000	E7
3014	F4
3015	F4
3017	F5
3018	F5
3026	D9
3050	D4
3058	E6
3070	D8
3071	E10
3072	D8
3073	E8
3074	E9
3075	E9
3076	E9
3077	E9
3078	D8
3079	E10
3080	B9
3081	B9
3082	B10
3083	B10
3084	B10
3085	C9
3086	C9
3087	C9
3088	C9
3090	C9
3300	F2
3301	F1
3302	E1
3303	D1
3304	D2
3305	D2
3307	C5
3308	F3
3309	B5
3312	B6
3314	C4
3316	A4
3317	A2
3318	D4
3319	A3
3320	A4
5001	E4
5002	D8
5003	B8
5004	E5
5005	F4
5006	B7
5007	F5
5008	F4
5009	E6
5010	E7
5011	A7
5012	F5
5013	F6
5015	D5
5016	D5
5017	E7
5018	F10
5019	F10
5020	E10
5021	D8
5022	C8
5025	A8
5026	A8
5027	E6
5301	A3
5302	A1
5303	A2
5304	C5
5305	E1
5306	C1
5307	D1
6019	D9
6021	B9
6029	F8
6030	F9
6031	E9
6040	E9
6041	B9
6306	B4
6307	D3
6308	B5
6309	B5
7001	E5
7002	B7
7005	F4
7006	F5
7305	B5
7306	D5
7307	F4
9001	F6
9004	B10
9005	C8
9006	C8
9007	C8
9008	D6
9010	F7
9011	F6
9012	F6
9013	E5
9014	F4
9015	B8
9016	B8
9301	C3
9302	D4
9303	C1
9305	A3
9306	A2
9307	A1
9308	A1
9309	C2
9312	C5
9313	C2
9314	C3
9315	B7
9316	A5
9500	B3
9501	B4
9502	B4
9503	B5
9504	C4
9505	C4
9506	D6
9507	B6
9508	B10
9509	D10
9510	E7
9511	E5
9512	D6
9513	D5
9514	E6
9515	D10
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9517	E10
9518	D9
9519	B6
9520	B6
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9525	B2
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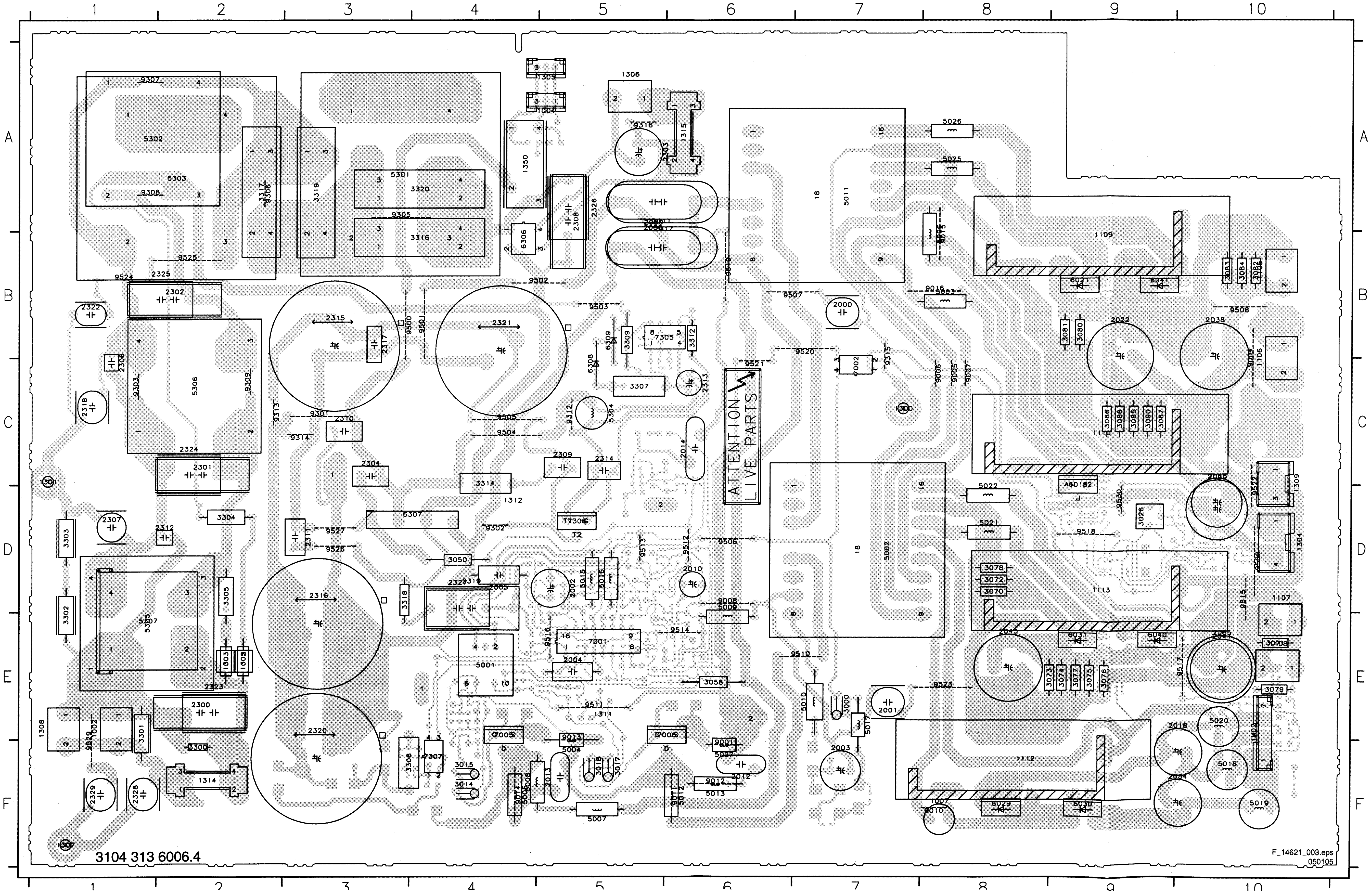
9527	D3
9529	F1
9530	D9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A
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C
D
E
F
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5301
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2326
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2321
2316
2320
2022
2038
2043
2065
ATTENTION LIVE PARTS
3104 313 6006.4
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Layout PSU (37") (Overview Bottom Side)

2006	E6
2007	E6
2008	C5
2009	F3
2015	C6
2016	D6
2019	E5
2021	F2
2023	D2
2024	D1
2025	D2
2026	D5
2027	D6
2028	D2
2029	B2
2030	D1
2031	D1
2032	D1
2033	D2
2035	E6
2036	E7
2037	D5
2039	E1
2040	E6
2042	E2
2044	D2
2045	B1
2046	E5
2047	E5
2048	E5
2049	E2
2050	C5
2051	E2
2052	E6
2053	D6
2054	D6
2055	E6
2056	E7
2057	E7
2058	E6
2061	E6
2062	E6
2063	C6
2064	D1
2305	C6
3001	D6
3002	E7
3003	D7
3004	E6
3005	E6
3006	E6
3007	E6
3008	E6
3009	E6
3010	D5
3011	E5
3012	D5
3013	C5
3019	E7
3020	E7
3021	C6
3022	D2
3023	D1
3024	D1
3025	D1
3027	D6
3028	D6
3029	E7
3030	D2
3031	E1
3032	E1
3033	E2
3034	D1
3035	D6
3036	E5
3037	D1
3038	D1
3039	E5
3040	D2
3041	D2
3042	E6
3043	E6
3044	D6
3045	D6
3046	C6
3047	E6
3048	E6
3049	D6
3051	D5
3052	D1
3054	C5
3055	E5
3056	E5
3057	D2
3059	D7
3060	E5
3061	E6
3062	E7
3063	D1
3065	C4
3066	E1
3067	E1
3068	D2
3089	D5
3091	D1
3306	E7
3310	F7
3311	C5
3313	C6
3999	F1
6002	E6
6003	E7
6004	E6
6005	E6
6006	E5
6007	E7
6008	E6
6010	C6
6011	C6
6012	E5
6013	E7
6014	C6
6015	C6
6017	E5
6018	D6
6020	D6
6022	E5
6023	D1
6024	F4
6025	F4
6026	E5
6027	F7
6028	E6
6032	F4
6033	F4
6035	E6
6036	D6
6038	E6
6042	F1
6043	E1
6044	E1
6304	D7
6305	E6
6314	F8
6315	F7
6316	F7
6317	F8
6318	F7
6354	F8
6355	F8
6360	A7
6361	A6
7003	E1
7004	D6
7007	E7
7008	E7
7009	D6
7010	D2
7011	D5
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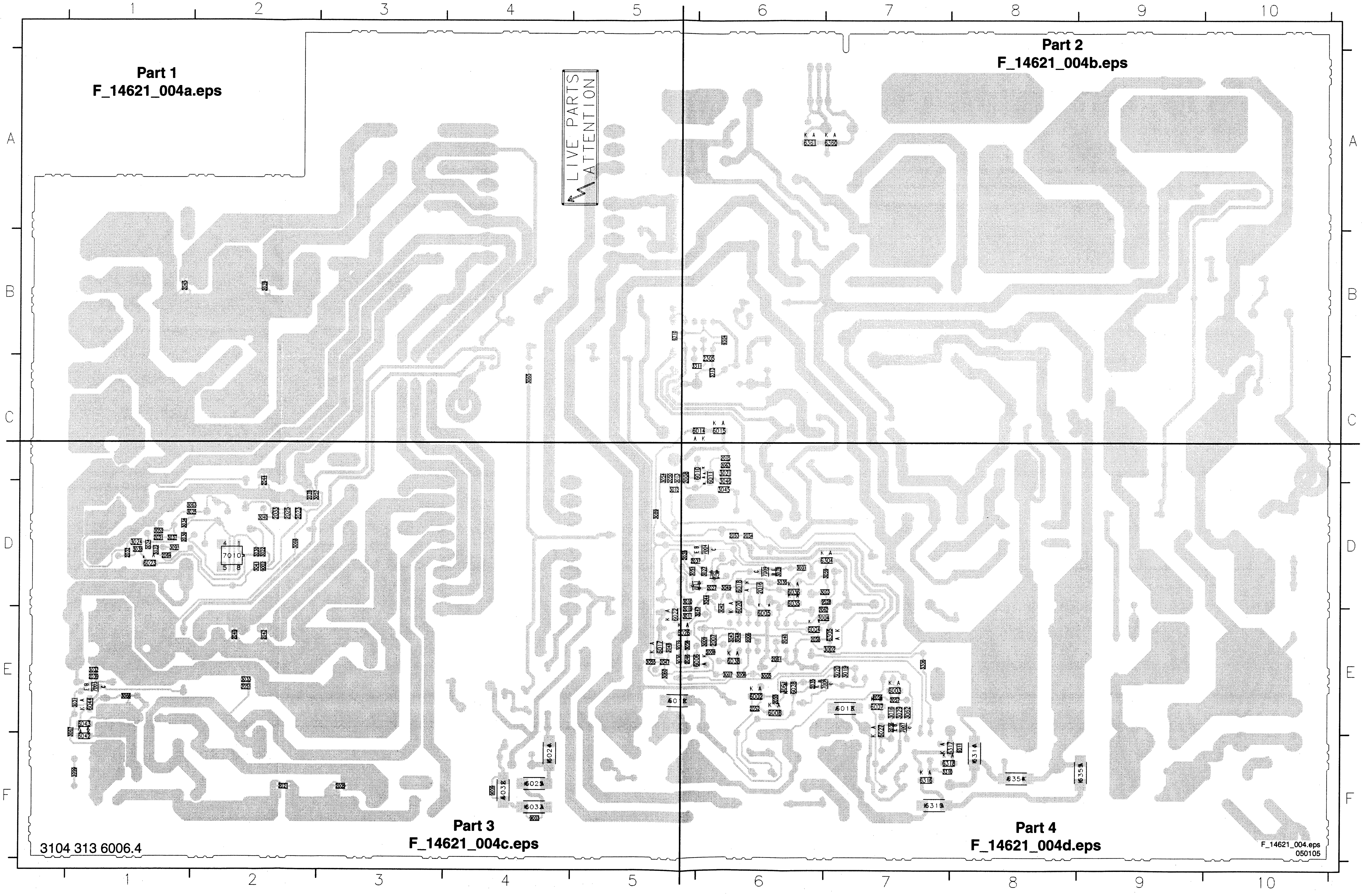
9002	D2
9003	F4
9009	F4
9304	B6
9310	B5
9311	F8
9528	D7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9
10
A
B
C
D
E
F
Part 1
F_14621_004a.eps
Part 2
F_14621_004b.eps
LIVE PARTS
ATTENTION
7010
Part 3
F_14621_004c.eps
Part 4
F_14621_004d.eps
3104 313 6006.4
F_14621_004.eps
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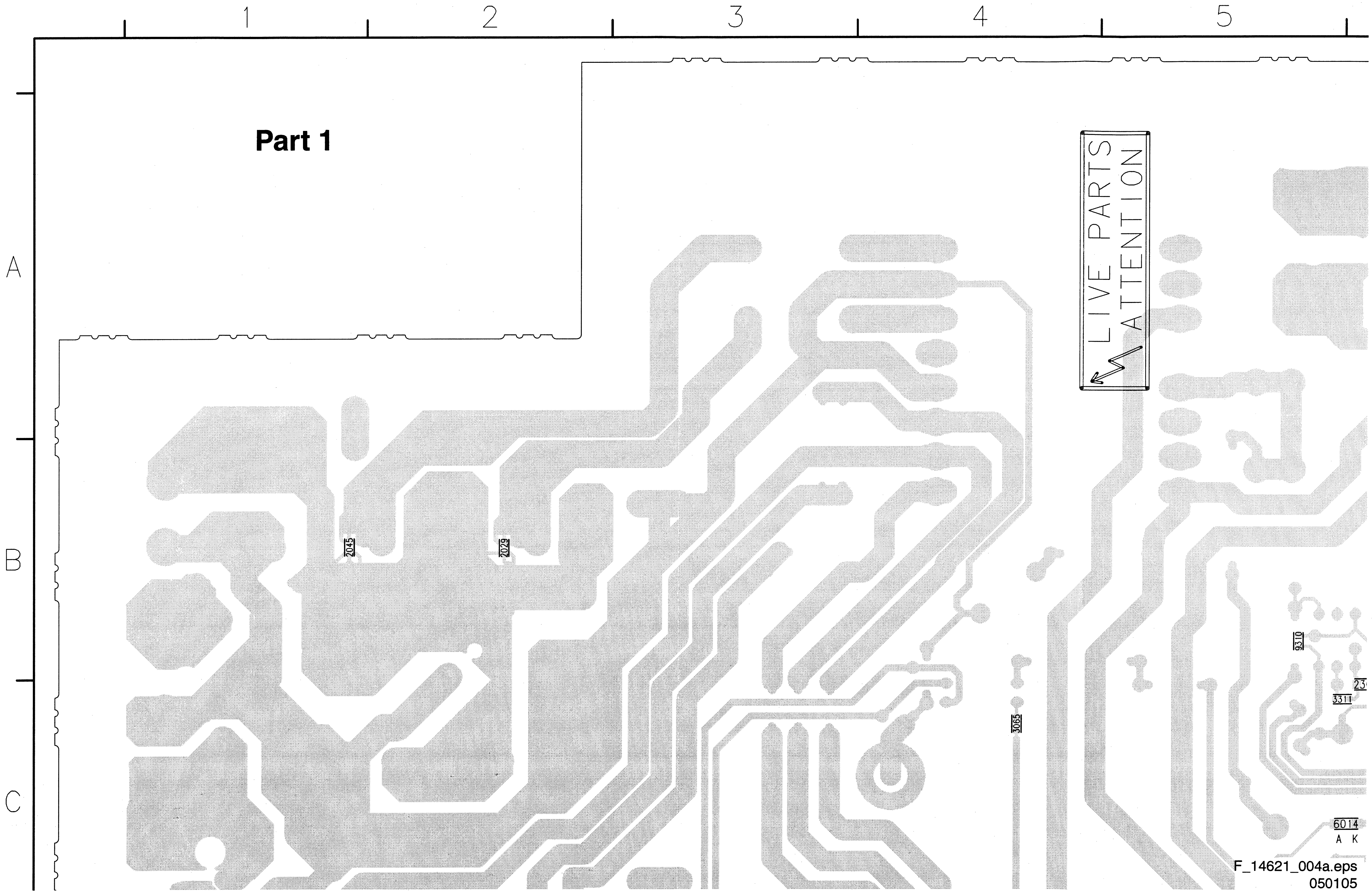
Layout PSU (37") (Part 1 Bottom Side)


1
2
3
4
5
A
B
C
Part 1
LIVE PARTS
ATTENTION
2045
2029
3065
9310
23
3311
6014
A K

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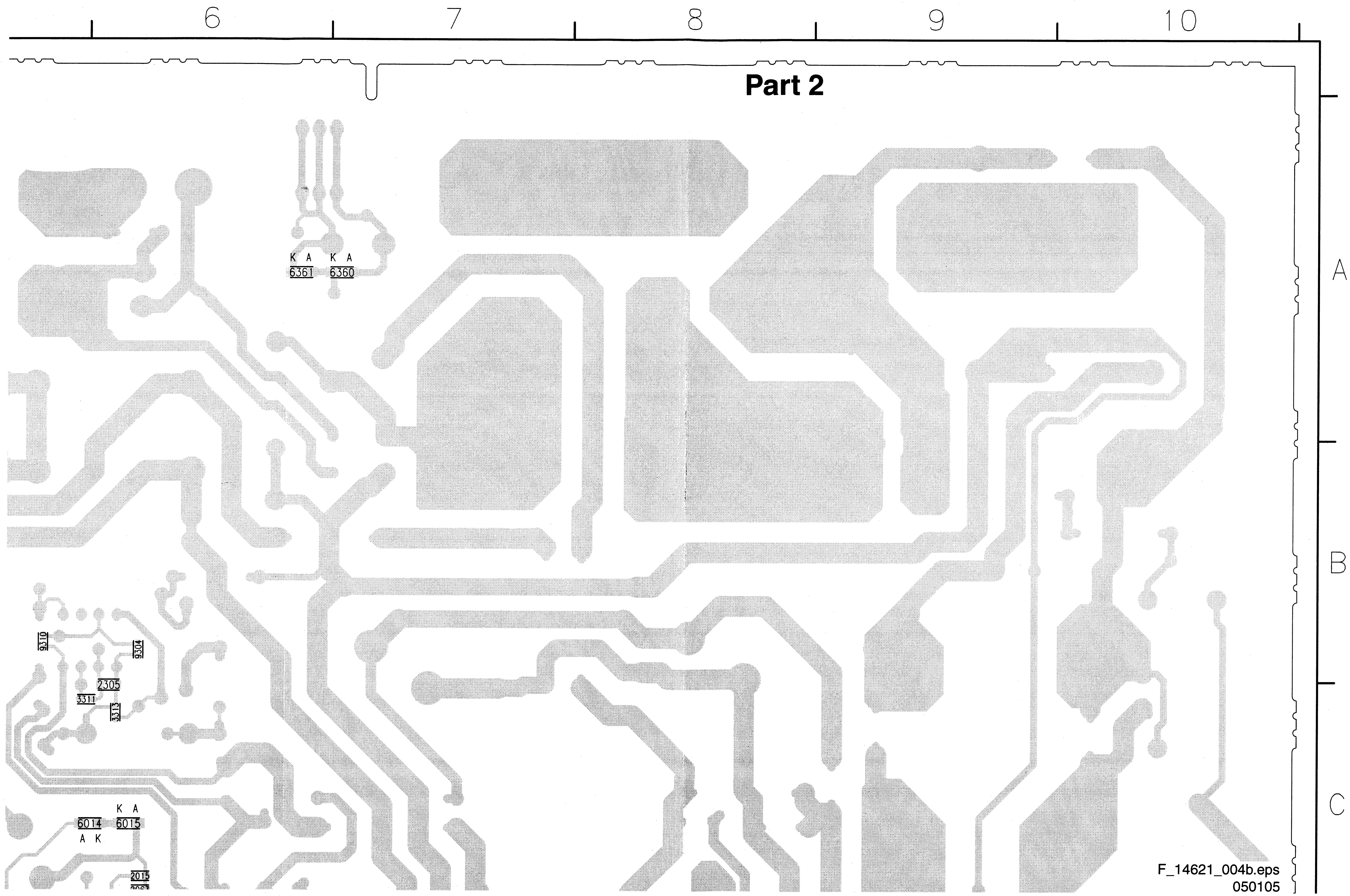
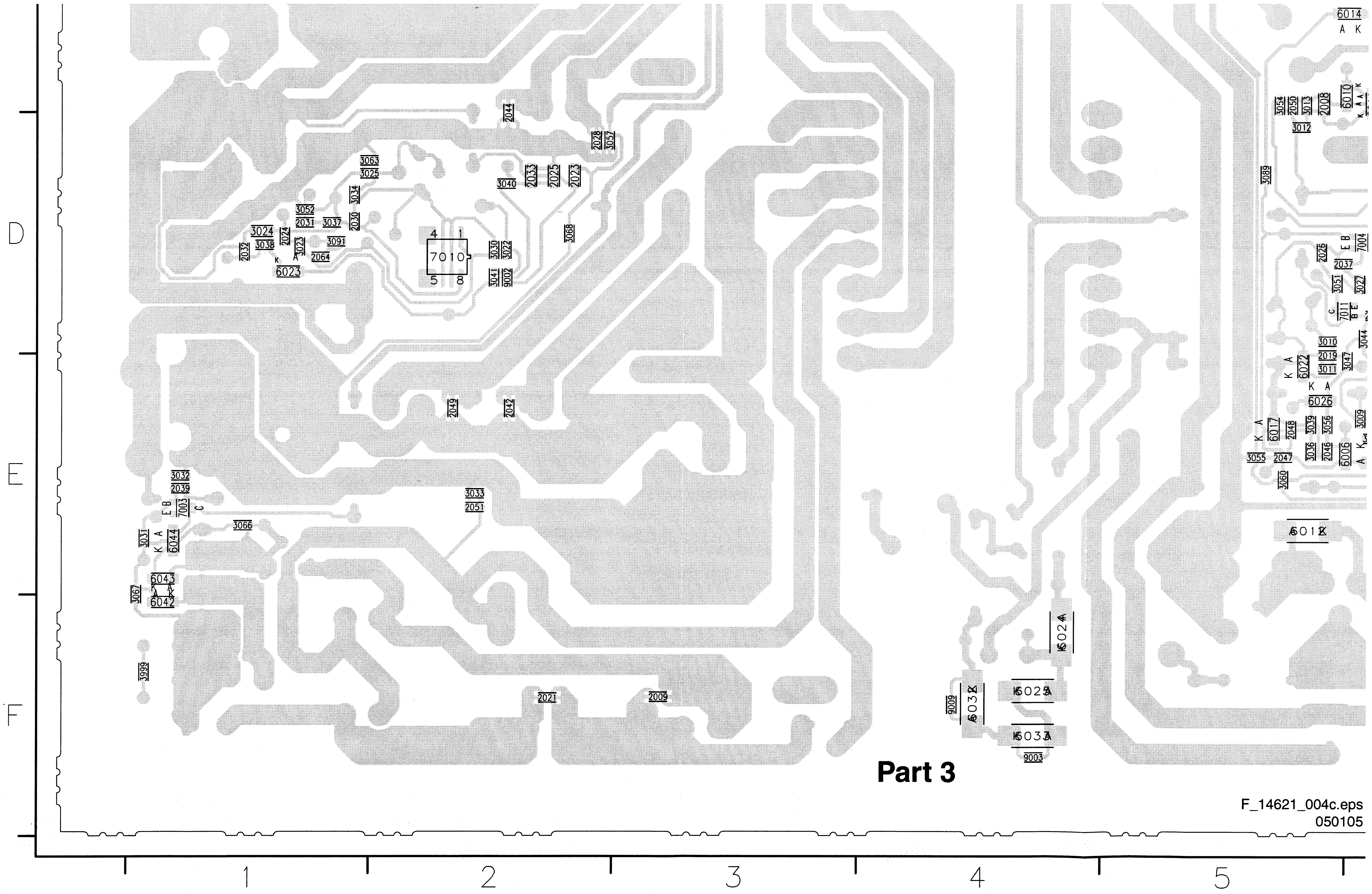
Layout PSU (37") (Part 2 Bottom Side)


6
7
8
9
10
Part 2
A
B
C
K A
6361
K A
6360
9310
9304
2305
3311
3313
K A
6014
6015
A K
2015

F_14621_004b.eps
050105

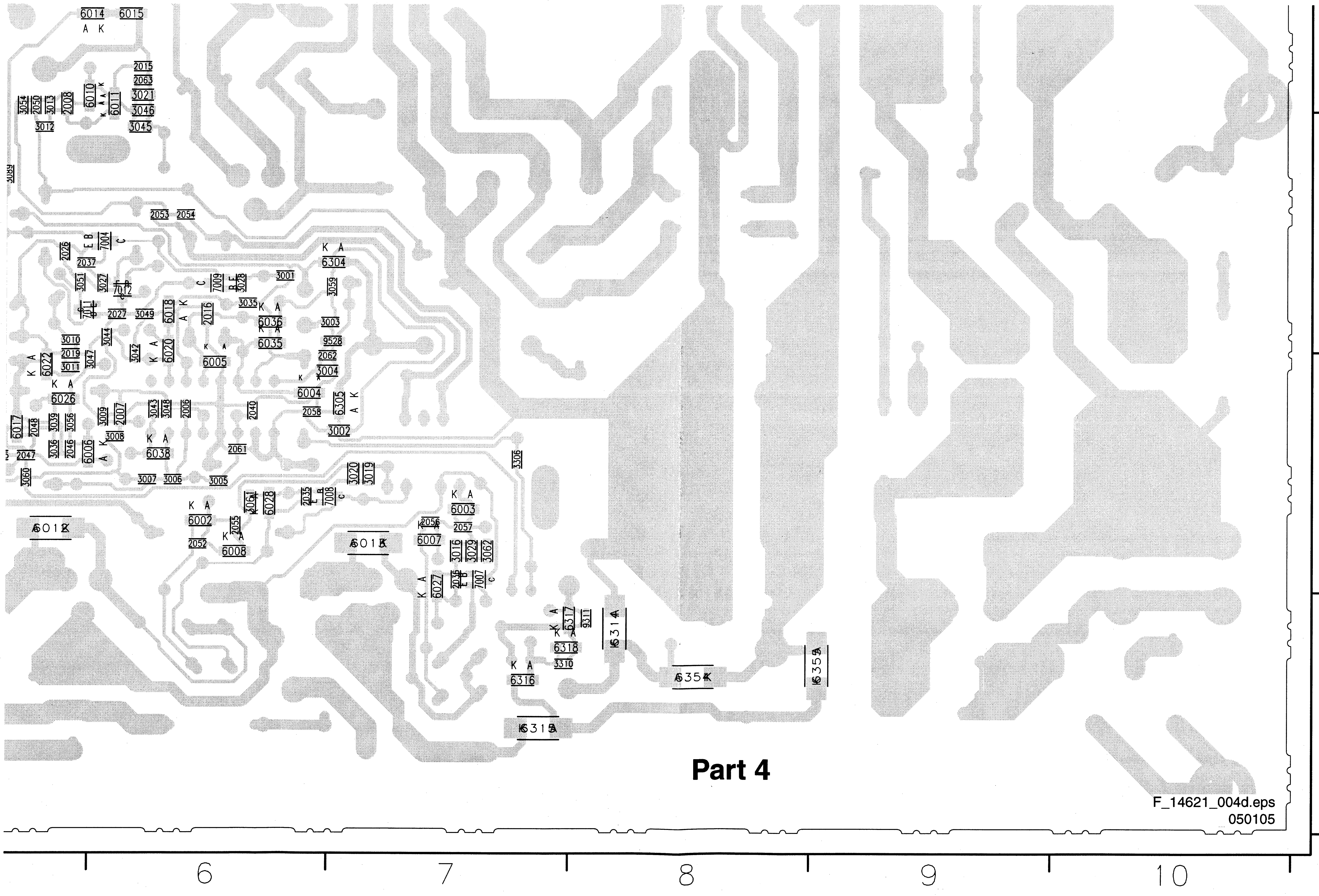
Layout PSU (37") (Part 3 Bottom Side)


6014
A K
3054
2050
3013
2008
6010
3012
2044
2028
3057
3063
3025
3040
2033
2025
2023
3089
3034
3052
2031
3037
2030
3024
2024
3038
3023
3091
2032
2064
6023
7010
4 1
5 8
3030
3022
3041
9002
3068
2026
E B
7004
2037
3051
3027
C
7011
B E
3044
3010
2019
3011
3047
K A
6022
6026
2049
2042
6017
2048
3039
3056
3009
3036
2046
6006
3055
2047
3060
3032
2039
E B
7003
C
3033
2051
3066
3031
6044
6043
6042
3067
6012
6024
3999
2021
2009
9009
6031
6025
6033
9003
D
E
F
1
2
3
4
5

Part 3

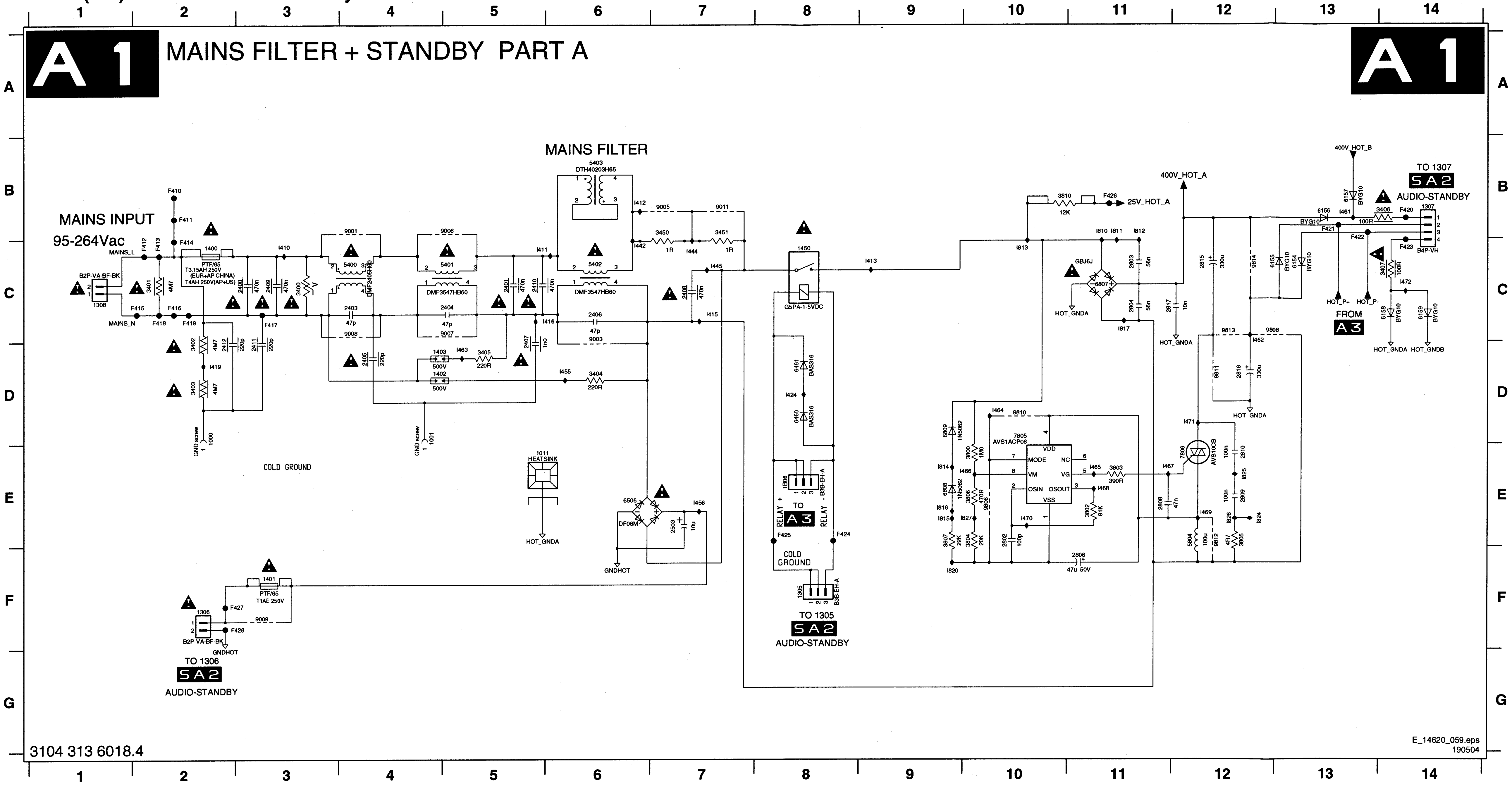
F_14621_004c.eps
050105

Layout PSU (37") (Part 4 Bottom Side)


6014
6015
2015
2063
3021
3046
3045
3054
2050
3013
2008
6010
6011
3012
2053
2054
2026
7004
2037
3051
3027
7012
7011
2027
3049
6018
2016
7009
3028
3001
3035
6036
6035
6304
3059
3003
9528
2062
3004
6004
6305
2058
3002
3010
2019
3011
3047
3044
3042
6020
6005
6022
6026
6017
2048
3039
3056
3009
2007
3043
3048
2006
2040
2047
3036
2046
6006
3008
6038
2061
3060
3007
3006
3005
3020
3019
3306
6002
3061
6028
2035
7008
6003
6012
2055
2052
6008
6013
2056
6007
2057
3016
3029
3062
6027
2036
7007
6317
9311
6314
6318
3310
6316
6351
6352
6315
D
E
F
6
7
8
9
10
Part 4

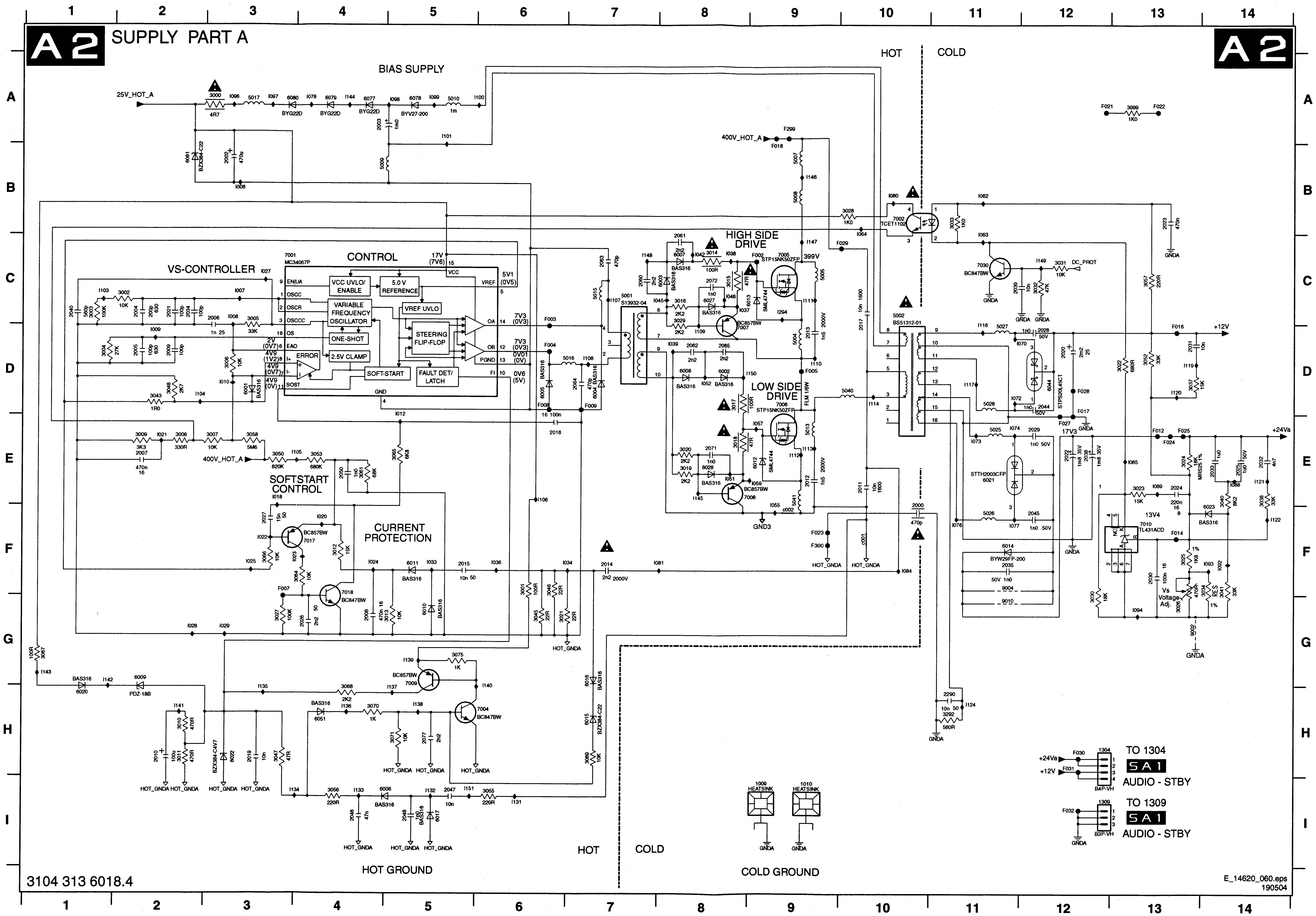
F_14621_004d.eps
050105

PSU (42"): Mains Filter and Standby Part A


A1
MAINS FILTER + STANDBY PART A
A1
MAINS FILTER
5403
DTH40203H65
MAINS INPUT
95-264Vac
MAINS_L
MAINS_N
B2P-VA-BF-BK
1308
F410
F411
F412
F413
F414
F415
F416
F418
F419
F417
1400
PTF/65
T3.15AH 250V
(EUR+AP CHINA)
T4AH 250V(AP+US)
3401
4M7
3402
4M7
3403
4M7
3400
2400
470n
2409
470n
2412
220p
2411
220p
I419
I410
9001
5400
DMF2405H90
2403
47p
9008
9006
5401
DMF3547HB60
2404
47p
9007
2405
220p
1403
500V
1402
500V
I463
3405
220R
2401
470n
2410
470n
2407
1n0
I411
I416
5402
DMF3547HB60
2406
47p
9003
I455
3404
220R
I412
9005
9011
3450
1R
3451
1R
I442
I444
I445
2408
470n
I415
1450
G5PA-1-5VDC
I413
6461
BAS316
I424
6460
BAS316
1B06
B3B-EH-A
RELAY +
TO
A3
RELAY -
F425
F424
COLD GROUND
1305
B3B-EH-A
TO 1305
SA2
AUDIO-STANDBY
GND screw
1000
COLD GROUND
GND screw
1001
1011
HEATSINK
HOT_GNDA
6506
DF06M
2503
10u
I456
GNDHOT
1401
PTF/65
T1AE 250V
1306
F427
F428
9009
B2P-VA-BF-BK
GNDHOT
TO 1306
SA2
AUDIO-STANDBY
3810
12K
F426
25V_HOT_A
400V_HOT_A
I810
I811
I812
I813
GBJ6J
6807
2803
56n
2804
56n
HOT_GNDA
I817
2817
10n
HOT_GNDA
2815
330u
9814
9813
9808
I462
9811
2816
330u
HOT_GNDA
400V_HOT_B
6157
BYG10
6156
BYG10
I461
F421
3406
100R
F420
1307
B4P-VH
TO 1307
SA2
AUDIO-STANDBY
6155
BYG10
6154
BYG10
F422
HOT_P+
HOT_P-
FROM
A3
3407
100R
F423
I472
6158
BYG10
6159
BYG10
HOT_GNDA
HOT_GNDB
6809
1N5062
I814
6808
1N5062
I816
I815
I466
3800
1M0
3806
100R
9806
I827
3807
22K
3804
20K
I820
I464
9810
7805
AVS1ACP08
VDD
MODE
VM
OSIN
NC
VG
OSOUT
VSS
I465
3803
390R
I468
3802
91K
I470
2802
100p
2806
47u 50V
2808
47n
I467
I471
7806
AVS10CB
2810
100n
I825
2809
100n
I824
I469
5804
100u
9812
3805
4R7
I826
3104 313 6018.4
E_14620_059.eps
190504

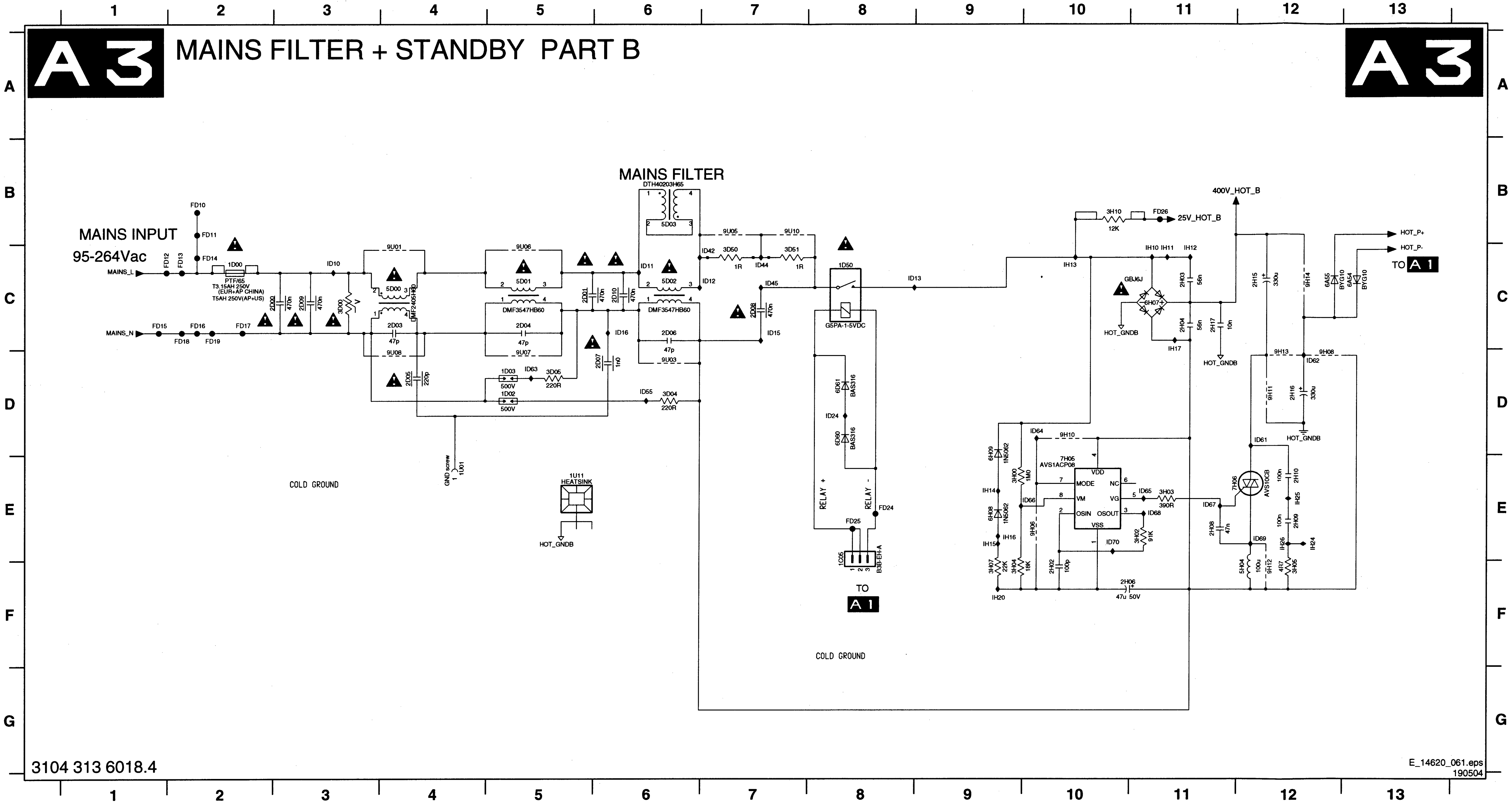
1000	D2
1001	D4
1011	E5
1305	F8
1306	F2
1307	B14
1308	C1
1400	C2
1401	F3
1402	D4
1403	D4
1450	C8
1B06	E8
2400	C3
2401	C5
2403	C4
2404	C5
2405	D4
2406	C6
2407	C5
2408	C7
2409	C3
2410	C5
2411	D3
2412	D2
2503	E7
2802	E10
2803	C11
2804	C11
2806	F11
2808	E11
2809	E12
2810	E12
2815	C12
2816	D12
2817	C11
3400	C3
3401	C2
3402	D2
3403	D2
3404	D6
3405	D5
3406	B14
3407	C14
3450	B7
3451	B7
3800	E10
3802	E11
3803	E11
3804	E10
3805	E12
3806	E10
3807	E9
3810	B10
5400	C4
5401	C5
5402	C6
5403	B6
5804	E12
6154	C13
6155	C12
6156	B13
6157	B13
6158	C14
6159	C14
6460	D8
6461	D8
6506	E6
6807	C11
6808	E9
6809	D9
7805	D10
7806	E12
9001	B4
9003	C6
9005	B7
9006	B5
9007	C5
9008	C4
9009	F3
9011	B7
9806	E10
9808	C12
9810	D10
9811	D12
9812	E12
9813	C12
9814	C12
F410	B2
F411	B2
F412	C2
F413	C2
F414	C2
F415	C2
F416	C2
F417	C3
F418	C2
F419	C2
F420	B14
F421	B13
F422	C13
F423	C14
F424	E8
F425	E8
F426	B11
F427	F3
F428	F3
I410	C3
I411	C5
I412	B6
I413	C9
I415	C7
I416	C6
I419	D2
I424	D8
I442	C6
I444	C7
I445	C7
I455	D6
I456	E7
I461	B13
I462	C12
I463	D5
I464	D10
I465	E11
I466	E10
I467	E11
I468	E11
I469	E12
I470	E10
I471	D12
I472	C14
I810	B11
I811	B11
I812	B11
I813	C10
I814	E9
I815	E9
I816	E9
I817	C11
I820	F9
I824	E12
I825	E12
I826	E12
I827	E10

PSU (42"): Supply Part A


A2
SUPPLY PART A
BIAS SUPPLY
25V_HOT_A
400V_HOT_A
VS-CONTROLLER
CONTROL
7001 MC34067P
VCC UVLO/ENABLE
5.0V REFERENCE
VARIABLE FREQUENCY OSCILLATOR
VREF UVLO
ONE-SHOT
STEERING FLIP-FLOP
ERROR
2.5V CLAMP
SOFT-START
FAULT DET/ LATCH
SOFTSTART CONTROL
CURRENT PROTECTION
HIGH SIDE DRIVE
LOW SIDE DRIVE
STP15NK50ZFP
BC857BW
BC847BW
5001 S13932-04
5002 BS51312-01
7002 TCET1102
7010 TL431ACD
STPS20L45CT
STTH2003CFP
BYW29FP-200
DC_PROT
+12V
+24Va
17V3
13V4
Vs Voltage Adj.
HOT
COLD
TO 1304
SA1
AUDIO - STBY
TO 1309
SA1
AUDIO - STBY
HEATSINK
HOT_GNDA
GNDA
GND3
HOT GROUND
COLD GROUND
3104 313 6018.4
E_14620_060.eps
190504

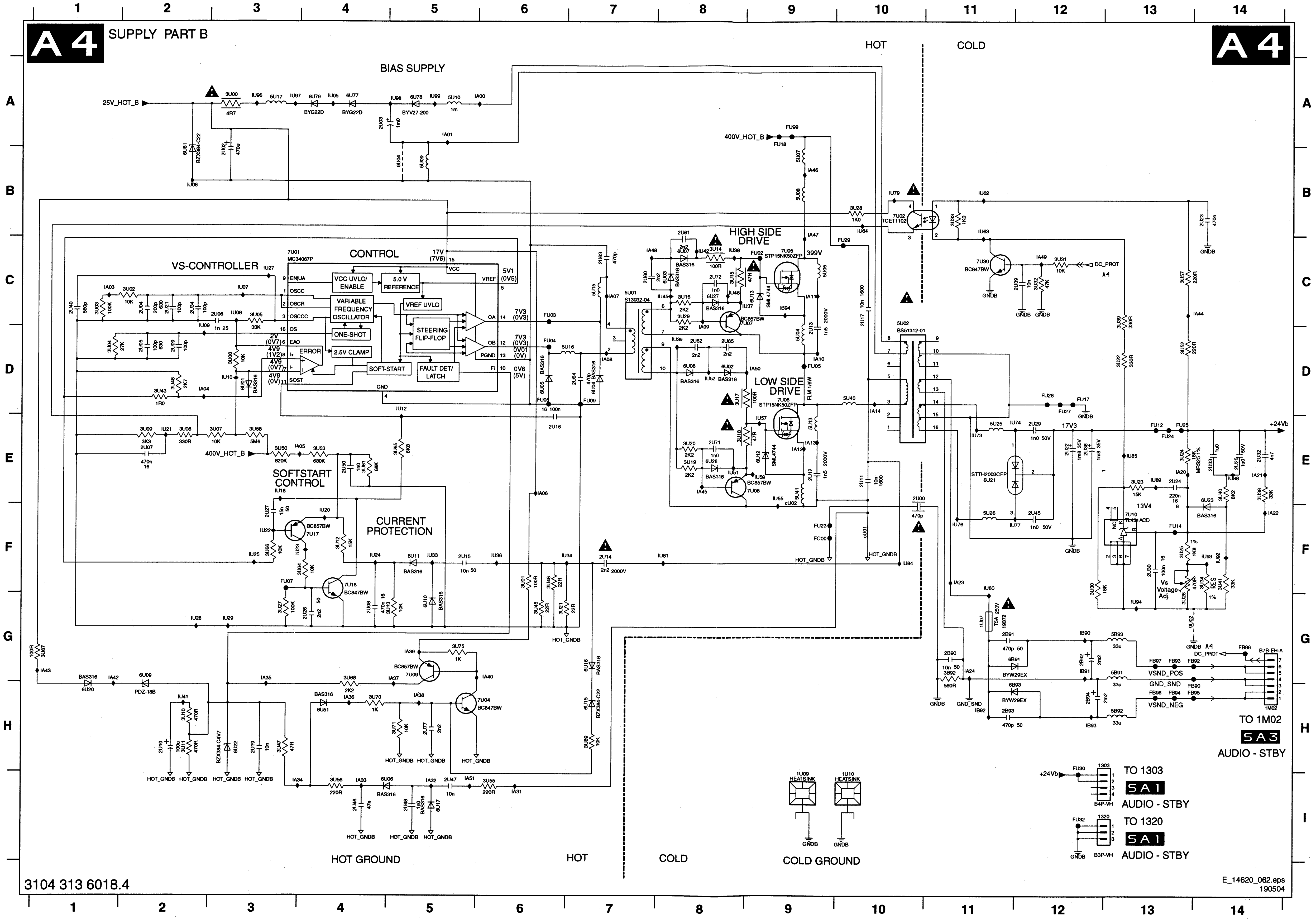
1009	I9
1010	I9
1304	H12
1309	I12
2000	F10
2002	B3
2003	A4
2004	C2
2005	D2
2006	C3
2007	E2
2008	G4
2009	D2
2010	H2
2011	E10
2012	E9
2013	D9
2014	F7
2015	F5
2016	E6
2017	C10
2019	H3
2020	D12
2021	C2
2022	E12
2023	B13
2024	E13
2025	E14
2026	G4
2027	F3
2028	D12
2029	E12
2030	F13
2031	D13
2032	E14
2033	E14
2034	C2
2035	F11
2038	E12
2039	C11
2040	C1
2044	D12
2045	F12
2046	I4
2047	I5
2048	I5
2050	E4
2060	C7
2061	C8
2062	D8
2063	C7
2064	D7
2065	D8
2071	E8
2072	C8
2077	H5
2290	H11
3000	A3
3001	F6
3002	C2
3003	C1
3004	D1
3005	C3
3006	D3
3007	E3
3008	E2
3009	E2
3010	H2
3011	H2
3012	F4
3013	G5
3014	C8
3015	C8
3016	C8
3017	D8
3018	E8
3019	E8
3020	E8
3021	G6
3022	D13
3023	E13
3024	E13
3025	F13
3026	G13
3027	G3
3028	B10
3029	C8
3030	G12
3031	C12
3032	C12
3033	B11
3034	F14
3037	D13
3038	E14
3040	E14
3041	F14
3043	D2
3045	G6
3046	F6
3047	H3
3048	D2
3050	E3
3052	D13
3053	E4
3055	I6
3056	I4
3057	C13
3058	E3
3061	E4
3064	F4
3065	E5
3066	F3
3067	G1
3068	H4
3070	H4
3071	H5
3075	G5
3089	H7
3292	H11
3999	A13
5001	C7
5002	C10
5004	D9
5005	C9
5007	B9
5008	B9
5009	B4
5010	A5
5013	E9
5015	C7
5016	D7
5017	A3
5025	E11
5026	F11
5027	D11
5028	D11
5040	D10
5041	E9
6001	D3
6002	D8
6003	C8
6004	D7
6005	D6
6006	I5
6007	C8
6008	D8
6009	G2
6010	G5
6011	F5
6012	E9
6013	C9
6014	F11
6015	H7
6016	G7
6017	I5
6020	H1
6021	E11
6022	H3
6023	F14
6027	C8
6028	E8
6044	D12
6051	H4
6077	A4
6078	A5
6079	A4
6080	A3
6081	B2
7001	C3
7002	B10
7004	H6
7005	C9
7006	D9
7007	D8
7008	E8
7009	G5
7010	F13
7017	F4
7018	F4
7030	C11
9002	G13
9004	F11
9010	G11
F002	C9
F003	C6
F004	D6
F005	D9
F007	F3
F008	D6
F009	D7
F012	E13
F014	F13
F016	D13
F017	D12
F018	B9
F021	A12
F022	A13
F023	F9
F024	E13
F025	E13
F027	E12
F028	D12
F029	C10
F030	H12
F031	H12
F032	I12
F299	A9
F300	F9
I006	B3
I007	C3
I008	C3
I009	D2
I010	D3
I012	D5
I018	E3
I020	F4
I021	E2
I022	F3
I023	F3
I024	F4
I025	F3
I027	C3
I028	G2
I029	G3
I033	F5
I034	F7
I036	F6
I037	C8
I038	C8
I039	D8
I042	C8
I045	C7
I046	C8
I051	E8
I052	D8
I055	E9
I057	E9
I059	E9
I062	B11
I063	B11
I064	B10
I070	D12
I072	D11
I073	E11
I074	E11
I076	F11
I077	F11
I078	A4
I080	B10
I081	F8
I084	F10
I085	E13
I088	E14
I089	E13
I092	F14
I093	F14
I094	G13
I096	A3
I097	A3
I098	A5
I099	A5
I100	A6
I101	A5
I103	C1
I104	D2
I105	E4
I106	E6
I107	C7
I108	D7
I109	D8
I110	D9
I111	C9
I112	E9
I113	E9
I114	D10
I116	C11
I117	D11
I119	D13
I120	D13
I121	E14
I122	F14
I124	H11
I131	I6
I132	I5
I133	I4
I134	I4
I135	H3
I136	H4
I137	H5
I138	H5
I139	G5
I140	G6
I141	H2
I142	G1
I143	G1
I144	A4
I145	E8
I146	B9
I147	C9
I148	C7
I149	C12
I150	D9
I151	I5
I294	C9
c001	F10
c002	F9

PSU (42"): Mains Filter and Standby Part B


A3
MAINS FILTER + STANDBY PART B
A3
MAINS INPUT
95-264Vac
MAINS_L
MAINS_N
FD10
FD11
FD12
FD13
FD14
FD15
FD16
FD17
FD18
FD19
1D00
PTF/65
T3.15AH 250V
(EUR+AP CHINA)
T5AH 250V(AP+US)
ID10
2D00
2D09
470n
3D00
9U01
5D00
DMF2405HD
2D03
47p
9U08
2D05
220p
9U06
5D01
DMF3547HB60
2D04
47p
9U07
1D03
500V
1D02
500V
ID63
3D05
220R
2D01
470n
2D10
470n
2D07
1n0
ID16
ID55
3D04
220R
MAINS FILTER
DTH40203H65
5D03
5D02
DMF3547HB60
2D06
47p
9U03
ID11
ID12
ID42
3D50
1R
ID44
3D51
1R
9U05
9U10
ID45
2D08
470n
ID15
1D50
G5PA-1-5VDC
ID13
6D61
BAS316
ID24
6D60
BAS316
RELAY +
RELAY -
FD24
FD25
1C05
B3B-EH-A
TO
A1
GND screw
1U01
1U11
HEATSINK
HOT_GNDB
COLD GROUND
COLD GROUND
3H10
12K
FD26
25V_HOT_B
400V_HOT_B
HOT_P+
HOT_P-
TO A1
IH13
IH10
IH11
IH12
GBJ6J
6H07
HOT_GNDB
2H03
56n
2H04
56n
2H17
10n
IH17
HOT_GNDB
2H15
330u
9H14
6A55
BYG10
6A54
BYG10
9H13
9H08
ID62
9H11
2H16
330u
HOT_GNDB
ID61
ID64
9H10
7H05
AVS1ACP08
VDD
MODE
NC
VM
VG
OSIN
OSOUT
VSS
ID65
3H03
390R
ID66
ID68
ID70
3H02
91K
6H09
1N5062
3H00
1M0
IH14
6H08
1N5062
IH15
IH16
9H06
3H07
22K
3H04
18K
2H02
100p
2H06
47u 50V
IH20
ID67
2H08
47n
7H06
AVS10CB
2H10
100n
IH25
2H09
100n
IH26
ID69
IH24
5H04
100u
9H12
3H05
4R7
3104 313 6018.4
E_14620_061.eps
190504

1C05	E8
1D00	C2
1D02	D5
1D03	D5
1D50	C8
1U01	E4
1U11	E5
2D00	C3
2D01	C5
2D03	C4
2D04	C5
2D05	D4
2D06	C6
2D07	D6
2D08	C7
2D09	C3
2D10	C6
2H02	F10
2H03	C11
2H04	C11
2H06	F10
2H08	E11
2H09	E12
2H10	E12
2H15	C12
2H16	D12
2H17	C11
3D00	C3
3D04	D6
3D05	D5
3D50	C7
3D51	C7
3H00	E9
3H02	E11
3H03	E11
3H04	F9
3H05	F12
3H07	F9
3H10	B10
5D00	C4
5D01	C5
5D02	C6
5D03	B6
5H04	F12
6A54	C13
6A55	C12
6D60	D8
6D61	D8
6H07	C11
6H08	E9
6H09	D9
7H05	E10
7H06	E12
9H06	E10
9H08	D12
9H10	D10
9H11	D12
9H12	F12
9H13	D12
9H14	C12
9U01	C4
9U03	D6
9U05	B7
9U06	C5
9U07	D5
9U08	D4
9U10	B7
FD10	B2
FD11	B2
FD12	C1
FD13	C2
FD14	C2
FD15	C1
FD16	C2
FD17	C2
FD18	C2
FD19	C2
FD24	E8
FD25	E8
FD26	B11
ID10	C3
ID11	C6
ID12	C7
ID13	C8
ID15	C7
ID16	C6
ID24	D8
ID42	C7
ID44	C7
ID45	C7
ID55	D6
ID61	D12
ID62	D12
ID63	D5
ID64	D10
ID65	E11
ID66	E10
ID67	E11
ID68	E11
ID69	E12
ID70	E10
IH10	C11
IH11	C11
IH12	C11
IH13	C10
IH14	E9
IH15	E9
IH16	E9
IH17	C11
IH20	F9
IH24	E12
IH25	E12
IH26	E12

PSU (42"): Supply Part B


A4
SUPPLY PART B
BIAS SUPPLY
HOT
COLD
25V_HOT_B
400V_HOT_B
VS-CONTROLLER
CONTROL
7U01
MC34067P
ENUA
OSCC
OSCR
OSCCC
OS
EAO
VCC UVLO/ ENABLE
5.0 V REFERENCE
VARIABLE FREQUENCY OSCILLATOR
VREF UVLO
ONE-SHOT
STEERING FLIP-FLOP
ERROR
2.5V CLAMP
SOFT-START
FAULT DET/ LATCH
SOST
GND
VCC
VREF
OA
OB
PGND
FI
17V (7V6)
5V1 (0V5)
7V3 (0V3)
0V6 (5V)
HIGH SIDE DRIVE
LOW SIDE DRIVE
7U05 STP15NK50ZFP
7U06 STP15NK50ZFP
399V
5U01 S13932-04
5U02 BS51312-01
7U02 TCET1102
7U30 BC847BW
DC_PROT
SOFTSTART CONTROL
CURRENT PROTECTION
7U17 BC857BW
7U18 BC847BW
7U09 BC857BW
7U04 BC847BW
7U10 TL431ACD
13V4
17V3
+24Vb
STTH2003CFP 6U21
Vs Voltage Adj.
VSND_POS
GND_SND
VSND_NEG
DC_PROT
B7B-EH-A
TO 1M02
SA3
AUDIO - STBY
TO 1303
SA1
AUDIO - STBY
TO 1320
SA1
AUDIO - STBY
B4P-VH
B3P-VH
1U09 HEATSINK
1U10 HEATSINK
HOT GROUND
HOT
COLD
COLD GROUND
HOT_GNDB
GNDB
3104 313 6018.4
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190504
1
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10
11
12
13
14
A
B
C
D
E
F
G
H
I

1303	H13
1320	I13
1M02	H14
1U07	G11
1U09	I9
1U10	I10
2B90	G11
2B91	G11
2B92	G12
2B93	H11
2B94	H12
2U00	E10
2U02	B3
2U03	A4
2U04	C2
2U05	D2
2U06	C3
2U07	E2
2U08	G4
2U09	D2
2U10	H2
2U11	E10
2U12	E9
2U13	D9
2U14	F7
2U15	F5
2U16	E6
2U17	C10
2U19	H3
2U21	C2
2U22	E12
2U23	B14
2U24	E13
2U25	E14
2U26	G4
2U27	F3
2U29	E12
2U30	F13
2U32	E14
2U33	E14
2U34	C2
2U38	E12
2U39	C12
2U40	C1
2U45	F12
2U46	I4
2U47	I5
2U48	I5
2U50	E4
2U60	C7
2U61	B8
2U62	D8
2U63	C7
2U64	D7
2U65	D8
2U71	E8
2U72	C8
2U77	H5
3B92	G11
3U00	A3
3U01	F6
3U02	C2
3U03	C1
3U04	D1
3U05	C3
3U06	D3
3U07	E3
3U08	E2
3U09	E2
3U10	H2
3U11	H2
3U12	F4
3U13	G5
3U14	C8
3U15	C8
3U16	C8
3U17	D8
3U18	E8
3U19	E8
3U20	E8
3U21	G6
3U22	D13
3U23	E13
3U24	E13
3U25	F13
3U26	G13
3U27	G3
3U28	B10
3U29	C8
3U30	F12
3U31	C12
3U32	C12
3U33	B11
3U34	F14
3U38	E14
3U39	C13
3U40	E14
3U41	F14
3U43	D2
3U45	G6
3U46	F6
3U47	H3
3U48	D2
3U50	E3
3U52	D13
3U53	E4
3U55	I6
3U56	I4
3U57	C13
3U58	E3
3U61	E4
3U64	F4
3U65	E5
3U66	F3
3U67	G1
3U68	G4
3U70	H4
3U71	H5
3U75	G5
3U89	H7
5B91	G13
5B92	H13
5B93	G13
5U01	C7
5U02	C10
5U04	D9
5U05	C9
5U07	B9
5U08	B9
5U09	B5
5U10	A5
5U13	E9
5U15	C7
5U16	D7
5U17	A3
5U25	E11
5U26	F11
5U40	D10
5U41	E9
6B91	G12
6B93	H12
6U01	D3
6U02	D8
6U03	C8
6U04	D7
6U05	D6
6U06	I5
6U07	C8
6U08	D8
6U09	G2
6U10	G5
6U11	F5
6U12	E9
6U13	C9
6U15	H7
6U16	G7
6U17	I5
6U20	H1
6U21	E11
6U22	H3
6U23	E14
6U27	C8
6U28	E8
6U51	H4
6U77	A4
6U78	A5
6U79	A4
6U81	B2
7U01	C3
7U02	B10
7U04	H6
7U05	C9
7U06	D9
7U07	C8
7U08	E9
7U09	G5
7U10	F13
7U17	F4
7U18	F4
7U30	C11
9U02	G13
9U04	B5
FB90	H14
FB92	G14
FB93	G13
FB94	H13
FB95	H14
FB96	G14
FB97	G13
FB98	H13
FC00	F9
FU02	C9
FU03	C6
FU04	D6
FU05	D9
FU07	F3
FU08	D6
FU09	D7
FU12	E13
FU14	F13
FU17	D12
FU18	A9
FU23	F9
FU24	E13
FU25	E13
FU27	D12
FU28	D12
FU29	C10
FU30	H12
FU32	I12
FU99	A9
IA00	A6
IA01	A5
IA03	C1
IA04	D2
IA05	E4
IA06	E6
IA07	C7
IA08	D7
IA09	D8
IA10	D9
IA11	C9
IA12	E9
IA13	E9
IA14	D10
IA20	E13
IA21	E14
IA22	F14
IA23	F11
IA24	G11
IA31	I6
IA32	I5
IA33	I4
IA34	I4
IA35	G3
IA36	H4
IA37	G5
IA38	H5
IA39	G5
IA40	G6
IA42	G1
IA43	G1
IA44	C14
IA45	E8
IA46	B9
IA47	B9
IA48	C7
IA49	C12
IA50	D9
IA51	I5
IB90	G12
IB91	G12
IB92	H11
IB93	H12
IB94	C9
IU05	A4
IU06	B2
IU07	C3
IU08	C3
IU09	D2
IU10	D3
IU12	D5
IU18	E3
IU20	F4
IU21	E2
IU22	F3
IU23	F3
IU24	F4
IU25	F3
IU27	C3
IU28	G2
IU29	G3
IU33	F5
IU34	F7
IU36	F6
IU37	C9
IU38	C8
IU39	D8
IU41	H2
IU42	C8
IU45	C8
IU46	C8
IU51	E8
IU52	D8
IU55	E9
IU57	E9
IU59	E9
IU62	B11
IU63	B11
IU64	B10
IU73	E11
IU74	E12
IU76	F11
IU77	F12
IU79	B10
IU80	F11
IU81	F8
IU84	F10
IU85	E13
IU88	E14
IU89	E13
IU92	F14
IU93	F14
IU94	G13
IU96	A3
IU97	A3
IU98	A5
IU99	A5
cU01	F10
cU02	F9

Layout PSU (42") (Top Side)

1000	B1
1001	A2
1009	B10
1010	C10
1011	C4
1303	E11
1304	B11
1305	A4
1306	A5
1307	D5
1308	C1
1309	B11
1320	E11
1400	B1
1401	A5
1402	A3
1403	A3
1450	B4
1B06	A4
1C05	D4
1D00	D1
1D02	E3
1D03	E3
1D50	E4
1M02	F11
1U01	D3
1U07	F10
1U09	E10
1U10	G10
1U11	G4
2000	A9
2002	B8
2003	B7
2004	A8
2005	A8
2010	A8
2011	C7
2012	D9
2013	C7
2014	A9
2017	B7
2020	C11
2022	B11
2025	A10
2033	A11
2038	B10
2400	B1
2401	B4
2403	A3
2404	A3
2405	A3
2406	B3
2407	B4
2408	C3
2409	B1
2410	B4
2411	B1
2412	B1
2503	A5
2803	C4
2804	C5
2806	B5
2808	C5
2809	D4
2810	D5
2815	B4
2816	B6
2817	A6
2B92	F10
2B94	F10
2D00	D2
2D01	E4
2D03	D4
2D04	E4
2D05	D4
2D06	E4
2D07	E4
2D08	E4
2D09	D2
2D10	E4
2H03	F5
2H04	F5
2H06	F5
2H08	F5
2H09	G5
2H10	G6
2H15	E5
2H16	E6
2H17	E6
2U00	E9
2U02	E8
2U03	E7
2U04	D7
2U05	D7
2U10	D8
2U11	F8
2U12	G9
2U13	G8
2U14	D8
2U17	F7
2U22	F11
2U25	D11
2U33	D11
2U38	E10
3000	A6
3014	C7
3015	C6
3017	D8
3018	D8
3026	A10
3050	A7
3053	A7
3058	A7
3400	A1
3401	C1
3402	D1
3403	C1
3404	B3
3405	B3
3406	D5
3407	D6
3450	D2
3451	C3
3800	B5
3803	C5
3805	C5
3807	B5
3810	B5
3D00	D1
3D04	E3
3D05	E3
3D50	G2
3D51	G4
3H00	E5
3H03	F6
3H05	G4
3H07	E5
3H10	E5
3U00	D5
3U14	F7
3U15	G7
3U17	G8
3U18	G8
3U26	D10
3U50	E7
3U53	D6
3U58	E7
5001	C7
5002	B9
5004	C7
5005	D7
5007	A6
5008	A6
5009	B8
5010	B7
5013	D8
5015	B7
5016	B7
5017	A5
5025	B10
5026	B10
5027	C9
5028	C10
5040	C7
5041	D9
5400	A2
5401	A2
5402	C3
5403	C3
5804	C5
5B91	F11
5B92	F11
5B93	F11
5D00	E2
5D01	E3
5D02	F3
5D03	F2
5H04	F5
5U01	F7
5U02	F9
5U04	F7
5U05	G8
5U07	E6
5U08	E6
5U09	E8
5U10	E8
5U13	G9
5U15	E7
5U16	E7
5U17	D6
5U25	E10
5U26	E10
5U40	F7
5U41	G9
6014	A11
6021	B10
6044	D10
6078	B7
6506	B4
6807	C4
6808	B5
6809	B5
6B91	G10
6B93	G11
6H07	G5
6H08	E5
6H09	E5
6U21	E10
6U78	E7
7001	A7
7002	A9
7005	D7
7006	C8
7805	B5
7806	D5
7H05	F6
7H06	G6
7U01	D7
7U02	D9
7U05	G7
7U06	G9
9001	A1
9003	B4
9004	B11
9005	D2
9006	B2
9007	B3
9008	A1
9009	A5
9010	B11
9011	C3
9080	A8
9082	C4
9088	A10
9090	A10
9091	A9
9092	B8
9093	A8
9094	B7
9095	B9
9096	C7
9097	D6
9098	C4
9099	B3
9808	C6
9811	C6
9812	C5
9813	C6
9814	B6
9H08	F6
9H11	F6
9H12	F5
9H13	E6
9H14	E6
9H15	F6
9H16	G5
9H17	C1
9U01	E1
9U03	E4
9U04	E8
9U05	G3
9U06	E2
9U07	E3
9U08	E2
9U09	G8
9U10	F4
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9U52	E5
9U53	F5
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9U59	E5
9U60	D4
9U61	D5
9U62	D5
9U63	B11
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9U66	D10
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9U70	A8
9U71	B7
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9U73	B7
9U74	D7
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9U77	E9
9U78	E9
9U79	E8
9U80	E7
9U81	E7
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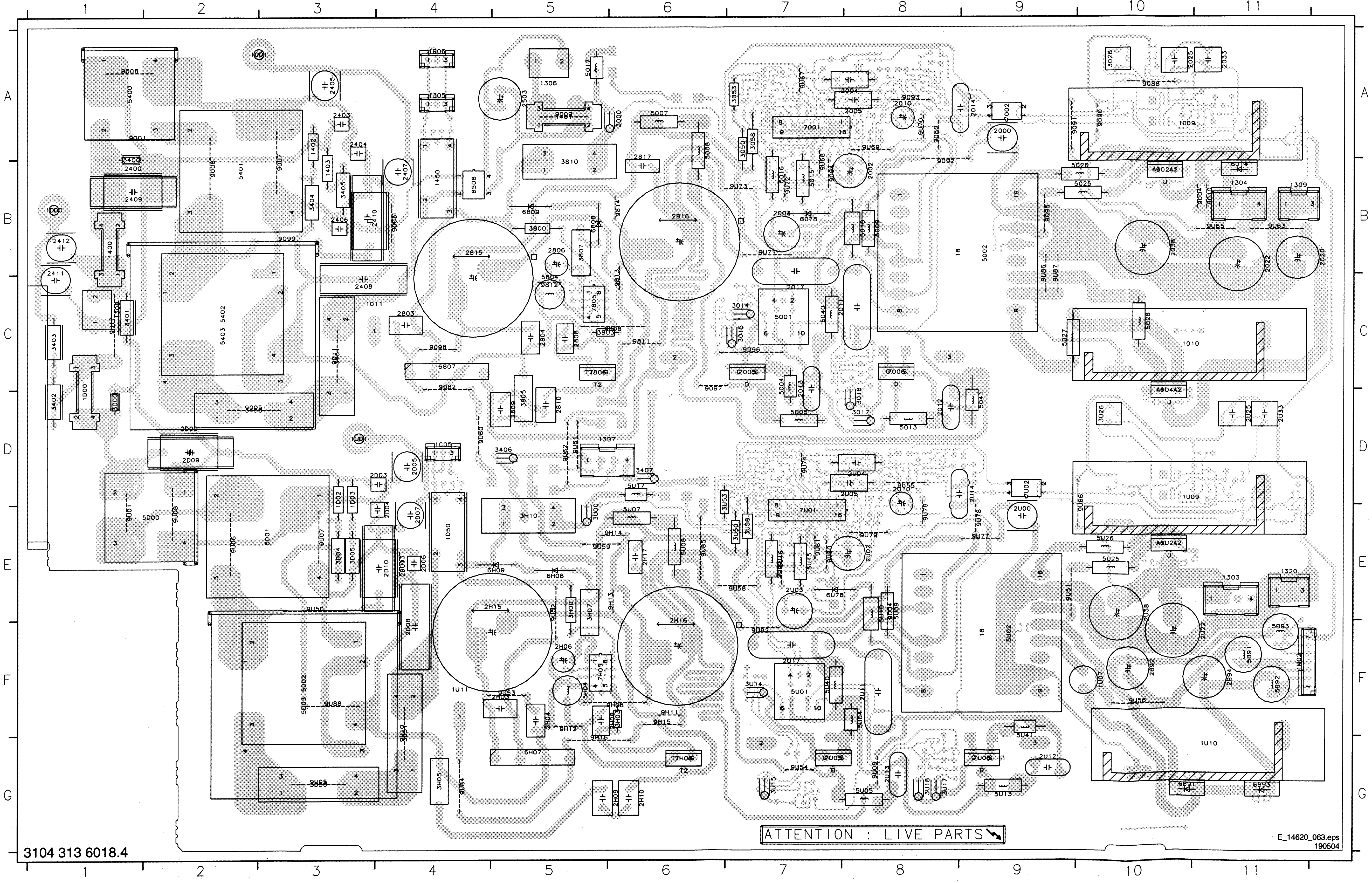
9U85	E6
9U86	B9
9U87	B9
9U88	F3



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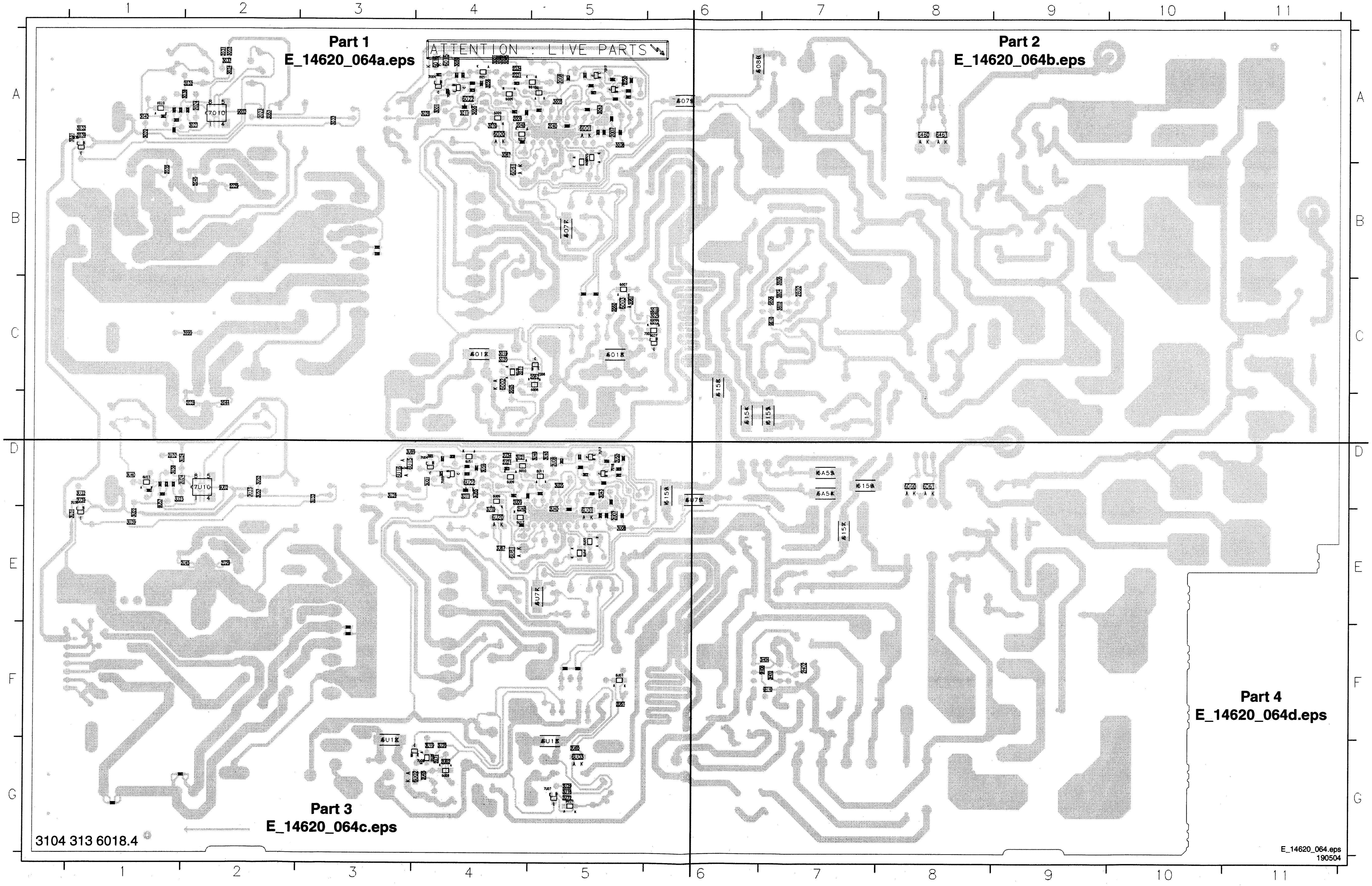
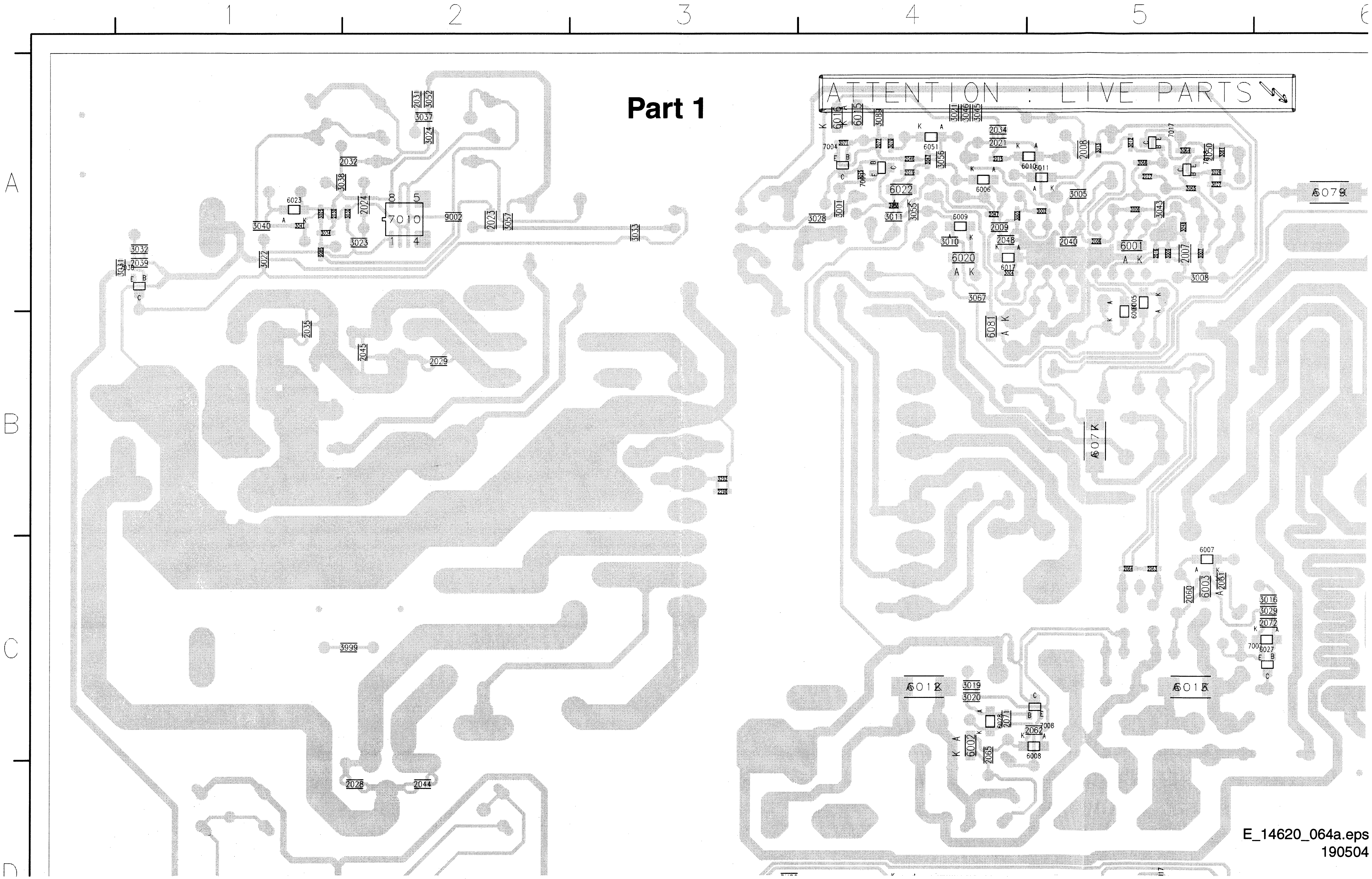
Layout PSU (42") (Overview Bottom Side)

2006 A5	2026 A5	2040 A5	2063 C5	2B93 G1	2U23 D2	2U45 E2	2U65 G4	3007 A5	3021 A4	3032 A1	3047 A4	3067 A4	3999 C2
2007 A5	2027 A5	2044 D2	2064 C5	2H02 F7	2U24 D1	2U46 D4	2U71 G4	3008 A5	3022 A1	3033 A3	3048 A5	3068 A4	3B92 F3
2008 A5	2028 D2	2045 B2	2065 C4	2U06 E5	2U26 D5	2U47 D4	2U72 G5	3009 A5	3023 A2	3034 A1	3052 A2	3070 A4	3H02 F7
2009 A4	2029 B2	2046 A4	2071 C4	2U07 E5	2U27 D5	2U48 E4	2U77 D4	3010 A4	3024 A2	3037 A2	3055 A4	3071 A4	3H04 F7
2015 A4	2030 A1	2047 A4	2072 C6	2U08 D5	2U29 E2	2U50 D5	3001 A4	3011 A4	3025 A1	3038 A1	3056 A4	3075 A4	3U01 D4
2016 A5	2031 A2	2048 A4	2077 A4	2U09 D4	2U30 D1	2U60 G5	3002 A5	3012 A5	3027 A5	3040 A1	3057 A2	3089 A4	3U02 D5
2019 A4	2032 A2	2050 A5	2290 B3	2U15 D4	2U32 D1	2U61 F5	3003 A4	3013 A5	3028 A4	3041 A1	3061 A5	3292 B3	3U03 D4
2021 A4	2034 A4	2060 C5	2802 C7	2U16 E5	2U34 D4	2U62 G4	3004 A4	3016 C6	3029 C6	3043 A5	3064 A5	3802 C7	3U04 E4
2023 A2	2035 B1	2061 C5	2B90 F3	2U19 D4	2U39 D1	2U63 F5	3005 A5	3019 C4	3030 A2	3045 A4	3065 A5	3804 C7	3U05 D5
2024 A2	2039 A1	2062 C5	2B91 G1	2U21 D4	2U40 E5	2U64 F5	3006 A5	3020 C4	3031 A1	3046 A4	3066 A5	3806 C7	3U06 D5

3U07 E5	3U21 D4	3U32 D1	3U47 D4	3U67 E4	6005 A5	6016 A4	6080 A6	6A54 D7	6U07 F5	6U20 E4	7007 C6	7U09 D4	9H10 F7
3U08 E5	3U22 E1	3U33 D3	3U48 D5	3U68 D4	6006 A4	6017 A4	6081 B4	6A55 D7	6U08 G4	6U22 D4	7008 C5	7U10 D2	9U02 D2
3U09 E5	3U23 D1	3U34 D1	3U52 D2	3U70 D4	6007 C5	6020 A4	6154 D6	6D60 D8	6U09 D4	6U23 D1	7009 A4	7U17 D5	9U57 D1
3U10 E4	3U24 D1	3U38 D1	3U55 D4	3U71 D4	6008 C5	6022 A4	6155 D6	6D61 D8	6U10 D4	6U27 G5	7010 A2	7U18 D5	
3U11 D4	3U25 D1	3U39 E1	3U56 D4	3U75 D4	6009 A4	6023 A1	6156 D7	6U01 D5	6U11 D5	6U28 G4	7017 A5	7U30 E1	
3U12 D5	3U27 D5	3U40 D1	3U57 D2	3U89 D3	6010 A5	6027 C6	6157 E7	6U02 G3	6U12 F3	6U51 D4	7018 A5	9002 A2	
3U13 D5	3U28 D3	3U41 D1	3U61 D5	6001 A5	6011 A5	6028 C4	6158 C6	6U03 G5	6U13 F5	6U77 E4	7030 A1	9085 A1	
3U16 G5	3U29 G5	3U43 D5	3U64 D5	6002 C4	6012 C4	6051 A4	6159 D6	6U04 E5	6U15 D4	6U79 D6	7U04 D4	9806 C7	
3U19 G4	3U30 D1	3U45 D5	3U65 D5	6003 C5	6013 C5	6077 B5	6460 A8	6U05 E5	6U16 D3	6U81 E4	7U07 G5	9810 C7	
3U20 G4	3U31 E1	3U46 D5	3U66 D5	6004 B5	6015 A4	6079 A6	6461 A8	6U06 D4	6U17 E4	7004 A4	7U08 F4	9H06 F7	



Layout PSU (42") (Part 1 Bottom Side)


1
2
3
4
5
A
B
C
D
Part 1
ATTENTION : LIVE PARTS
7010
8
5
1
4
9002
6023
3040
3023
3022
3032
2039
3031
2032
3038
2024
2023
3057
3033
2031
3052
3037
3024
2035
2045
2029
3999
2028
2044
6016
6015
3089
3041
3046
3045
2034
2021
6051
3056
7004
6022
3011
3055
3028
3001
6006
6010
6011
3005
2008
7017
3050
6079
6009
3010
2009
2048
6020
6017
3067
2040
6001
3043
2007
3008
6005
6081
6071
6007
2060
6003
2061
3016
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2072
7007
6027
6012
3019
3020
6028
2071
2062
7008
6002
2065
6008
6013

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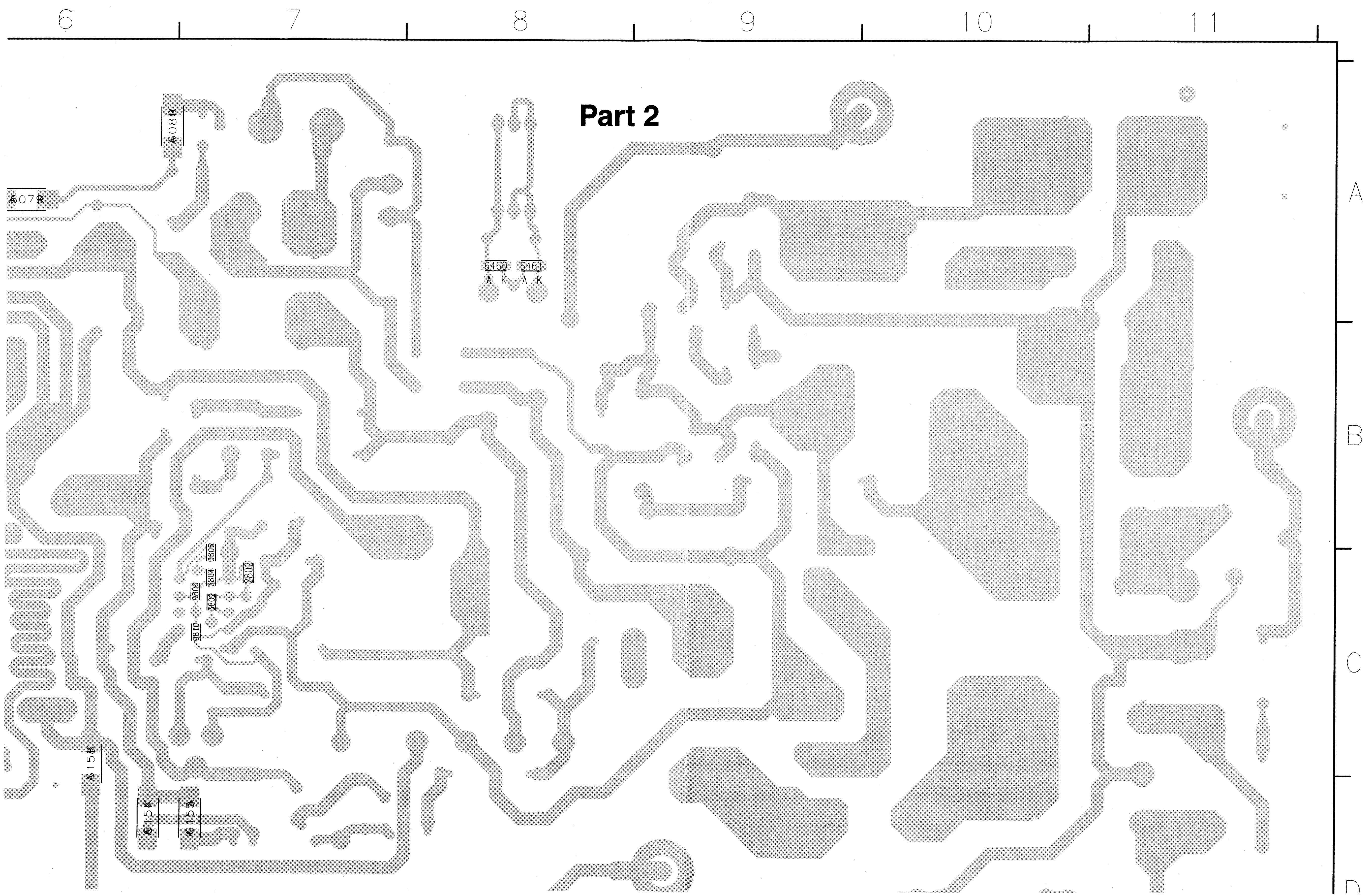
Layout PSU (42") (Part 2 Bottom Side)


6
7
8
9
10
11
A
B
C
D
Part 2
6080
6079
6460
6461
A K
A K
3806
3804
3802
2802
9806
9810
6158
6154
6153

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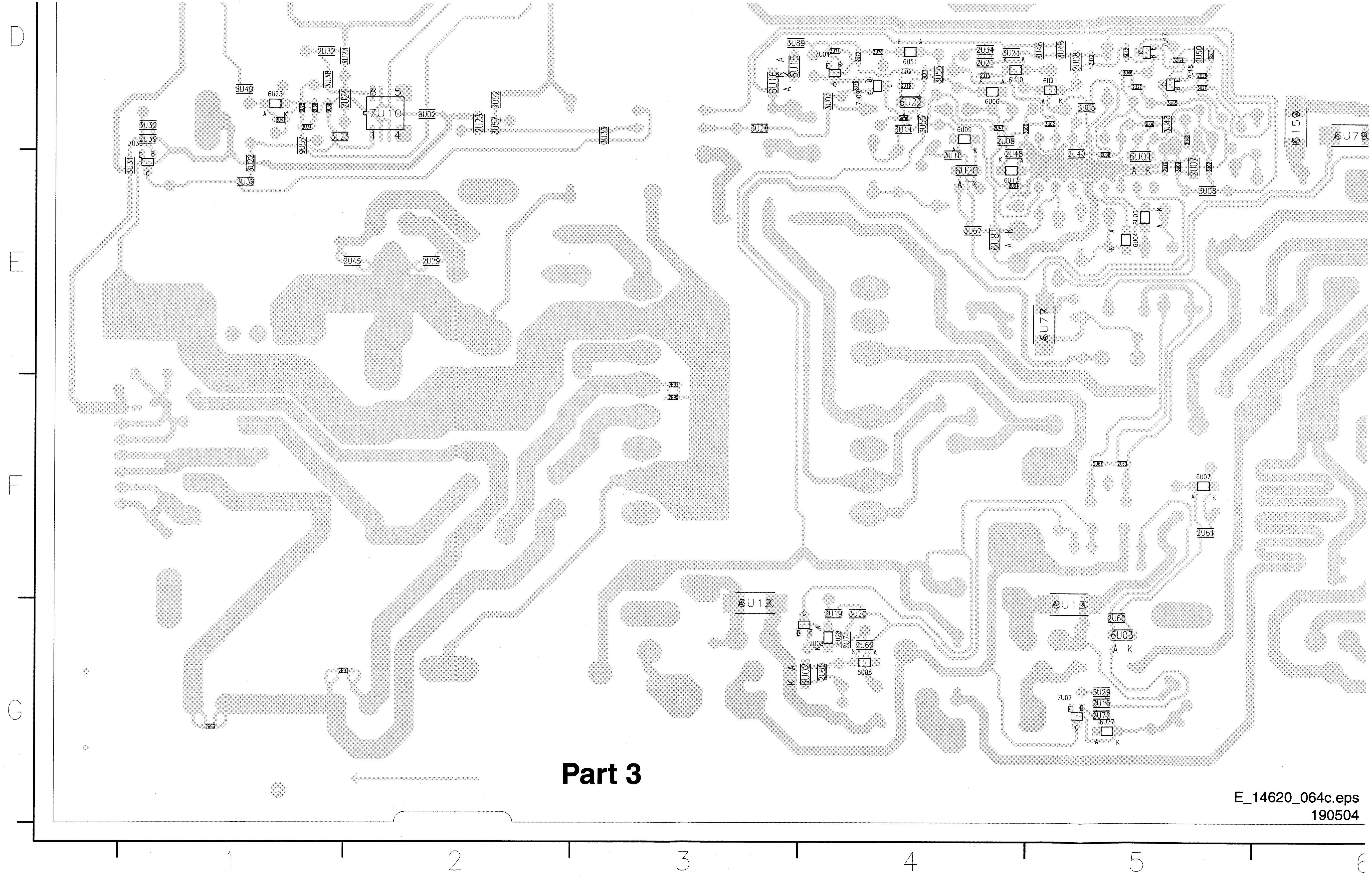
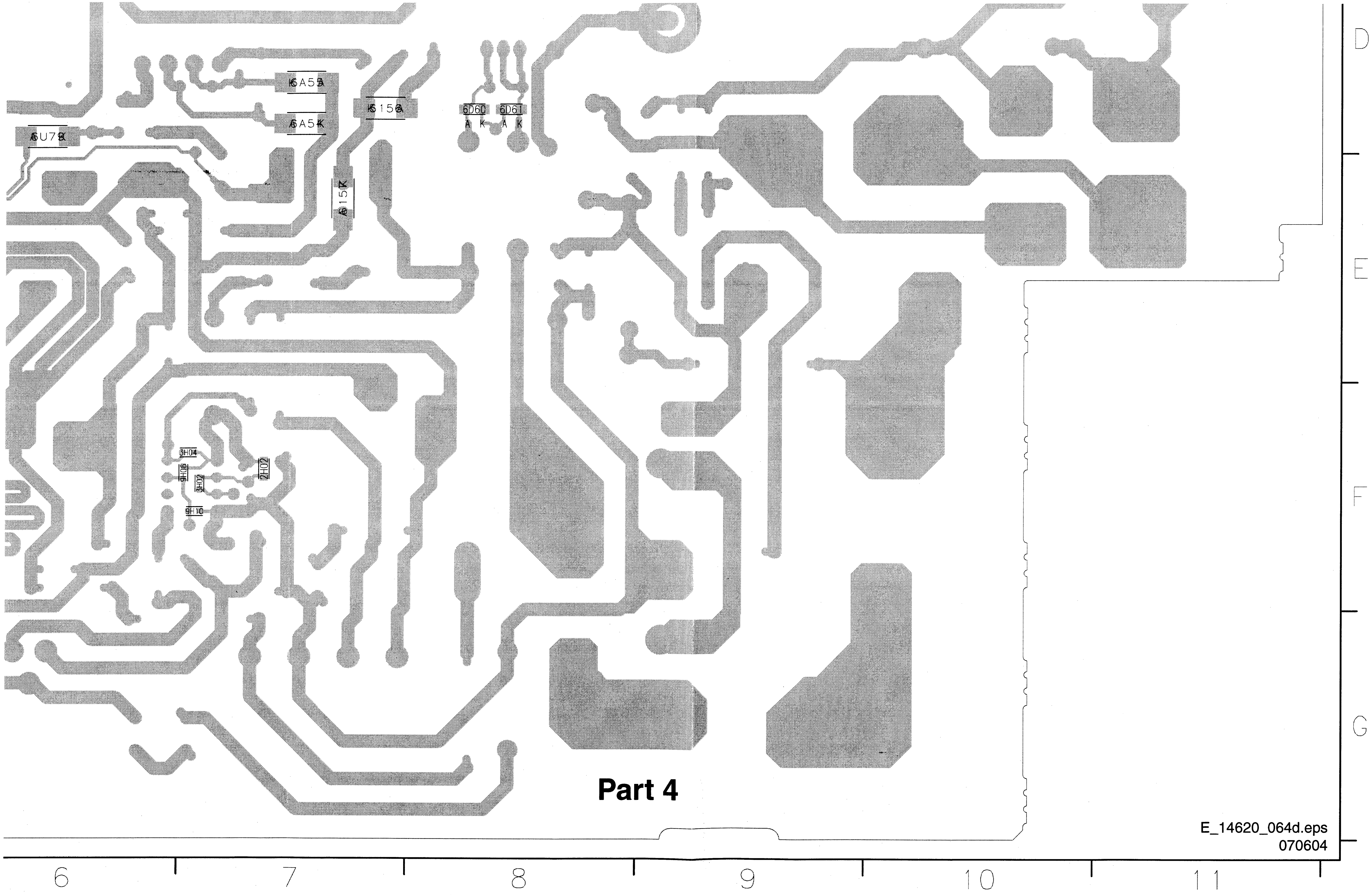
Layout PSU (42") (Part 3 Bottom Side)


D
E
F
G
1
2
3
4
5
2U32
3U24
3U38
2U24
3U40
6U23
A
K
8
5
7U10
1
4
9U02
3U52
2U23
3U57
3U23
9U57
3U22
3U39
3U32
2U39
7U30
E
B
C
3U31
3U33
2U45
2U29
3U89
7U04
6U16
6U15
3U01
7U09
6U51
6U22
3U11
3U55
3U56
3U28
2U34
2U21
3U21
6U10
6U06
3U46
3U45
2U08
6U11
3U05
7U17
7U18
2U50
3U43
2U07
3U08
6U01
2U40
6U09
3U10
6U20
2U09
2U48
6U17
3U67
6U81
6U05
6U04
6U07
2U61
6U12
3U19
3U20
7U08
6U28
2U71
2U62
6U08
6U02
2U65
6U13
2U60
6U03
7U07
3U29
3U16
2U72
6U27
6159
6U79

Part 3

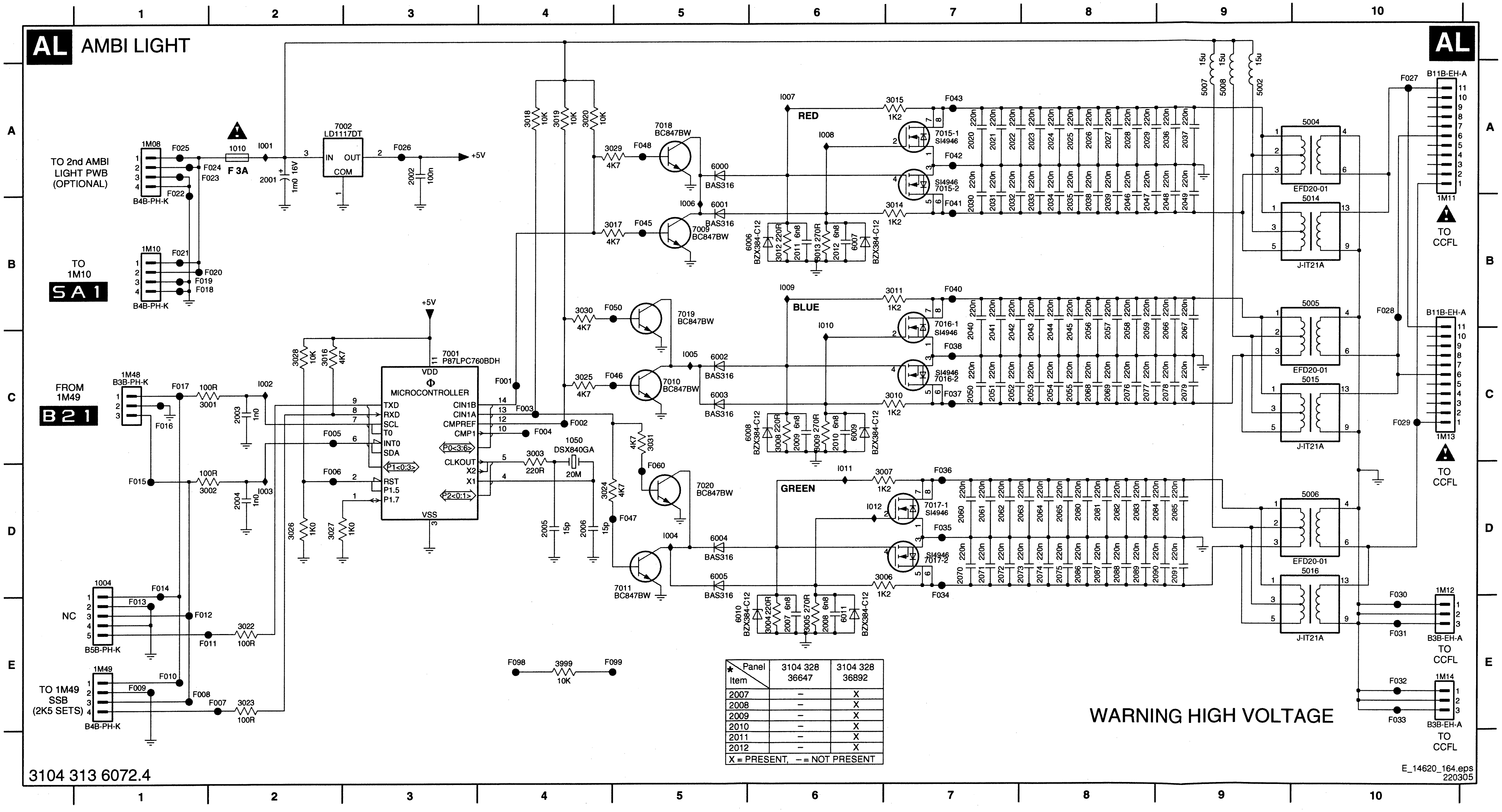
E_14620_064c.eps
190504

Layout PSU (42") (Part 4 Bottom Side)


6A53
6A54
6158
6U79
6157
6D60
6D61
A K A K
3H04
9H06
3H02
2H02
9H10
Part 4
E_14620_064d.eps
070604
D
E
F
G
6
7
8
9
10
11

Ambi Light Panel

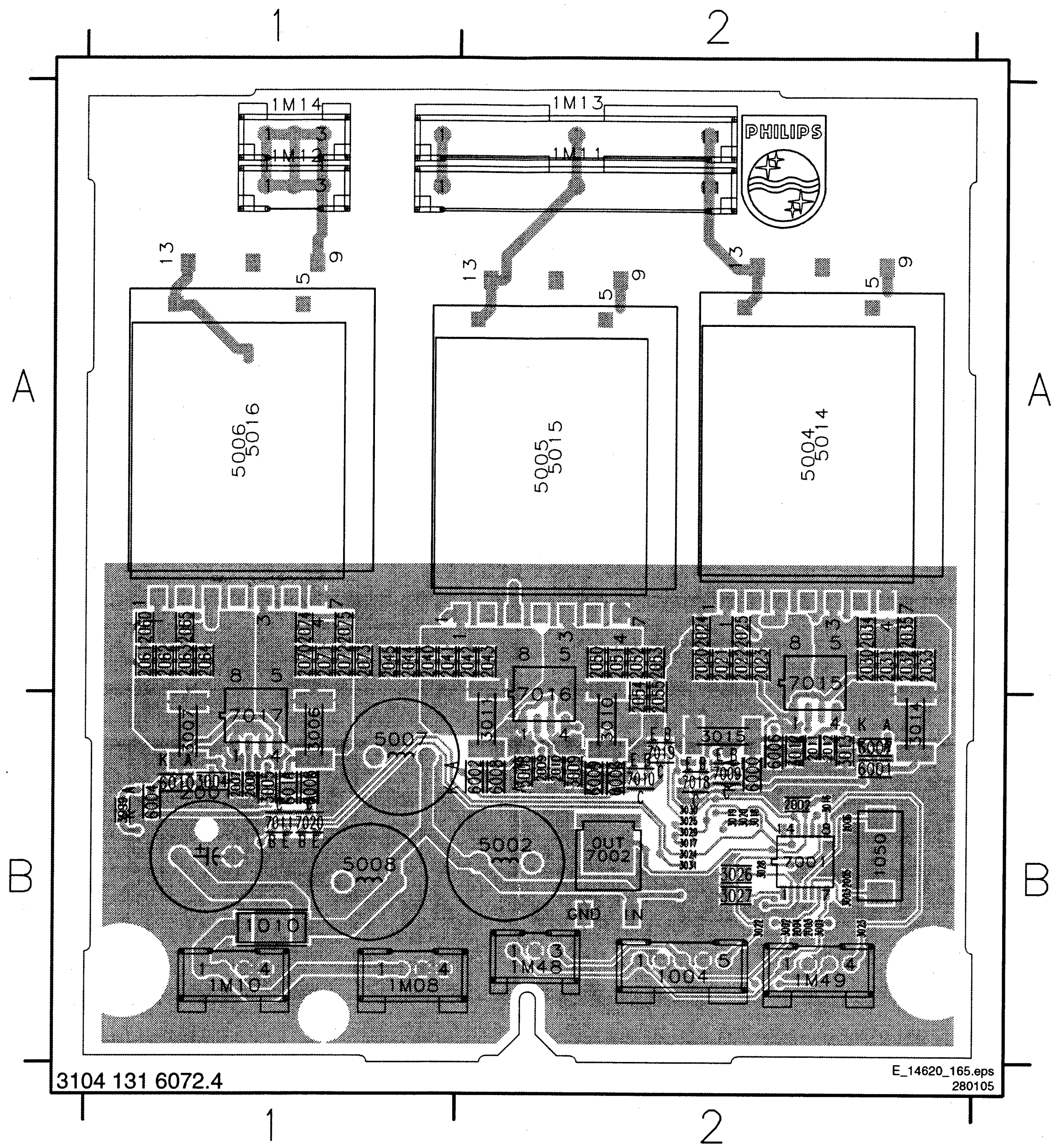
1004 D1	2002 A3	2021 A7	2033 B8	2045 C8	2057 C8	2069 C8	2081 D8	3002 D1	3014 B7	3027 D2	5014 B10	6009 C6	7017-1 D7	F008 E1	F020 B2	F032 E10	F046 C5	I006 B5
1010 A2	2003 C2	2022 A7	2034 B8	2046 B8	2058 C8	2070 D7	2082 D8	3003 C4	3015 A7	3028 C2	5015 C10	6010 E5	7017-2 D7	F009 E1	F021 B1	F033 E10	F047 D5	I007 A6
1050 C4	2004 D2	2023 A8	2035 B8	2047 B8	2059 C8	2071 D7	2083 D8	3004 E6	3016 C2	3029 A4	5016 D10	6011 E6	7018 A5	F010 E1	F022 A1	F034 E7	F048 A5	I008 A6
1M08 A1	2005 D4	2024 A8	2036 A9	2048 B9	2060 D7	2072 D7	2084 D9	3005 E6	3017 B4	3030 B4	6000 A5	7001 C3	7019 B5	F011 E1	F023 A2	F035 D7	F050 B4	I009 B6
1M10 B1	2006 D4	2025 A8	2037 A9	2049 B9	2061 D7	2073 D8	2085 D9	3006 D6	3018 A4	3031 C5	6001 B5	7002 A2	7020 D5	F012 E1	F024 A2	F036 D7	F060 D5	I010 B6
1M11 B10	2007 E6	2026 A8	2038 B8	2050 C7	2062 D7	2074 D8	2086 D8	3007 D6	3019 A4	3999 E4	6002 C5	7009 B5	F001 C4	F013 E1	F025 A1	F037 C7	F098 E4	I011 D6
1M12 D10	2008 E6	2027 A8	2039 B8	2051 C7	2063 D8	2075 D8	2087 D8	3008 C6	3020 A4	5002 A9	6003 C5	7010 C5	F002 C4	F014 D1	F026 A3	F038 C7	F099 E5	I012 D6
1M13 C10	2009 C6	2028 A8	2040 C7	2052 C7	2064 D8	2076 C8	2088 D8	3009 C6	3022 E2	5004 A10	6004 D5	7011 D5	F003 C4	F015 D1	F027 A10	F040 B7	I001 A2	
1M14 E10	2010 C6	2029 A8	2041 C7	2053 C8	2065 D8	2077 C8	2089 D8	3010 C7	3023 E2	5005 B10	6005 D5	7015-1 A7	F004 C4	F016 C1	F028 B10	F041 B7	I002 C2	
1M48 C1	2011 B6	2030 B7	2042 C7	2054 C8	2066 C9	2078 C9	2090 D9	3011 B7	3024 D4	5006 D10	6006 B6	7015-2 A7	F005 C2	F017 C1	F029 C10	F042 A7	I003 D2	
1M49 E1	2012 B6	2031 B7	2043 C8	2055 C8	2067 C9	2079 C9	2091 D9	3012 B6	3025 C4	5007 A9	6007 B6	7016-1 B7	F006 D2	F018 B1	F030 E10	F043 A7	I004 D5	
2001 A2	2020 A7	2032 B7	2044 C8	2056 C8	2068 C8	2080 D8	3001 C1	3013 B6	3026 D2	5008 A9	6008 C6	7016-2 C7	F007 E2	F019 B1	F031 E10	F045 B5	I005 C5	



AL
AMBI LIGHT
AL
1 2 3 4 5 6 7 8 9 10
A B C D E
TO 2nd AMBI LIGHT PWB (OPTIONAL)
1M08
B4B-PH-K
F025
F024
F023
F022
1010
F 3A
I001
2001
1m0 16V
7002
LD1117DT
IN OUT
COM
F026
+5V
2002 100n
TO 1M10
SA1
1M10
F021
F020
F019
F018
FROM 1M49
B21
1M48
B3B-PH-K
F017
100R
3001
F016
I002
2003 1n0
F015
100R
3002
2004 1n0
I003
+5V
3028 10K
3016 4K7
7001
P87LPC760BDH
VDD
MICROCONTROLLER
TXD
RXD
SCL
T0
INT0
SDA
P1<0:3>
RST
P1.5
P1.7
VSS
CIN1B
CIN1A
CMPREF
CMP1
P0<3:6>
CLKOUT
X2
X1
P2<0:1>
F005
F006
F001
F003
F002
F004
3003 220R
1050 DSX840GA 20M
2005 15p
2006 15p
3026 1K0
3027 1K0
3018 10K
3019 10K
3020 10K
3029 4K7
F048
7018 BC847BW
6000 BAS316
I006
6001 BAS316
3017 4K7
F045
7009 BC847BW
3030 4K7
F050
7019 BC847BW
I005
6002 BAS316
3025 4K7
F046
7010 BC847BW
6003 BAS316
3031 4K7
F060
7020 BC847BW
3024 4K7
F047
I004
6004 BAS316
6005 BAS316
7011 BC847BW
I007
RED
I008
3015 1K2
F043
7015-1 SI4946
F042
7015-2 SI4946
F041
3014 1K2
6006 BZX384-C12
3012 220R
2011 6n8
3013 270R
2012 6n8
6007 BZX384-C12
I009
BLUE
I010
3011 1K2
F040
7016-1 SI4946
F038
7016-2 SI4946
F037
3010 1K2
6008 BZX384-C12
3008 220R
2009 6n8
3009 270R
2010 6n8
6009 BZX384-C12
I011
GREEN
I012
3007 1K2
F036
7017-1 SI4946
F035
7017-2 SI4946
F034
3006 1K2
6010 BZX384-C12
3004 220R
2007 6n8
3005 270R
2008 6n8
6011 BZX384-C12
220n
5007 15u
5008 15u
5002 15u
5004 EFD20-01
5014 J-IT21A
5005 EFD20-01
5015 J-IT21A
5006 EFD20-01
5016 J-IT21A
F027
B11B-EH-A
1M11
TO CCFL
F028
B11B-EH-A
1M13
F029
TO CCFL
F030
1M12
F031
B3B-EH-A
TO CCFL
F032
1M14
F033
B3B-EH-A
TO CCFL
NC
1004
B5B-PH-K
F014
F013
F012
F011
3022 100R
TO 1M49 SSB (2K5 SETS)
1M49
B4B-PH-K
F010
F009
F008
F007
3023 100R
F098
3999 10K
F099
WARNING HIGH VOLTAGE
3104 313 6072.4
E_14620_164.eps 220305

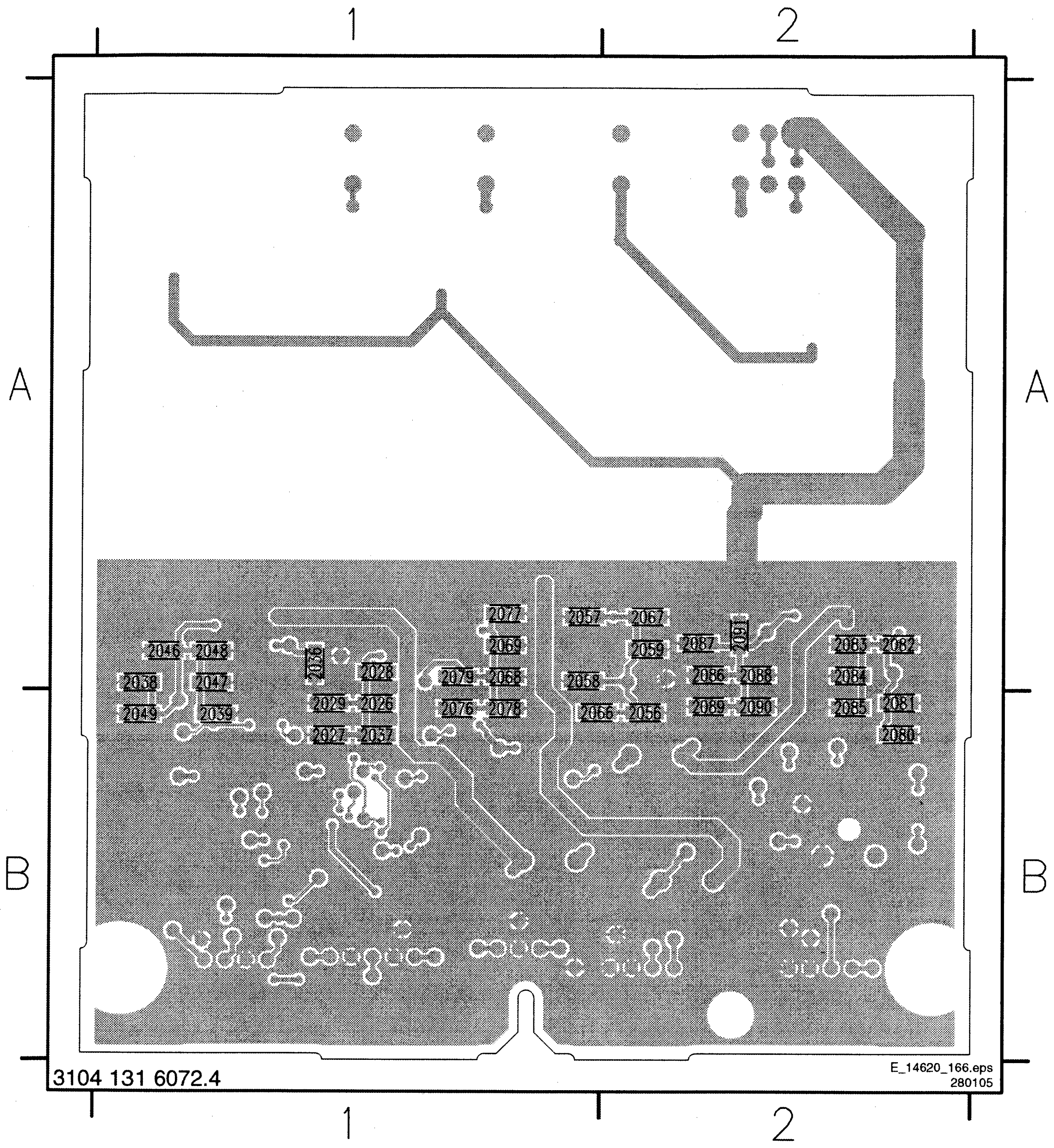
★ Panel / Item	3104 328 36647	3104 328 36892
2007	–	X
2008	–	X
2009	–	X
2010	–	X
2011	–	X
2012	–	X
X = PRESENT, – = NOT PRESENT		

Layout Ambi Light Panel (Top Side)


1
2
A
B
1M14
1M12
1M13
1M11
PHILIPS
5006
5016
5005
5015
5004
5014
7017
7016
7015
5007
5008
5002
7002
7001
1050
1010
1M10
1M08
1M48
1004
1M49
GND
IN
OUT
3104 131 6072.4
E_14620_165.eps
280105

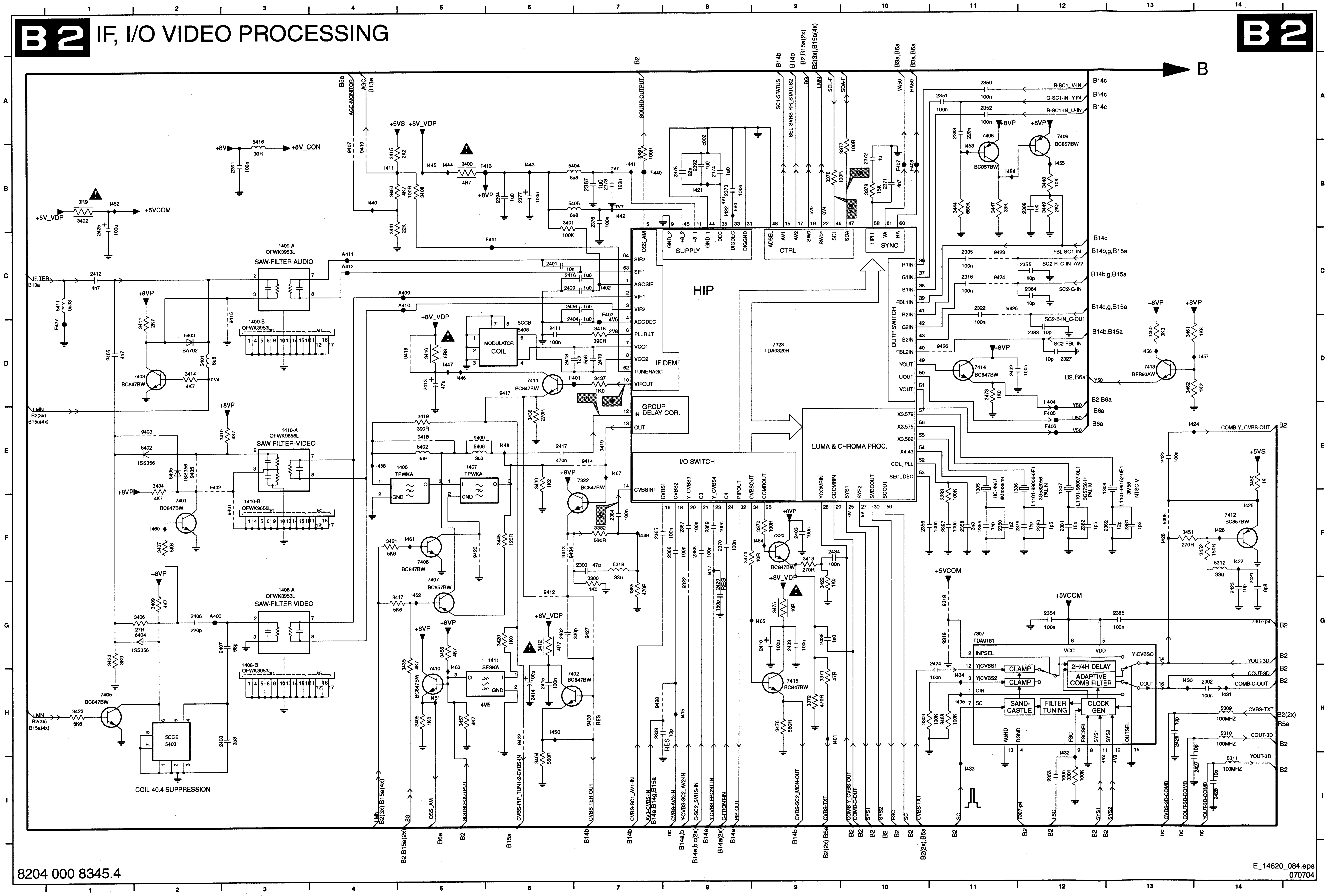
1004	B2
1010	B1
1050	B2
1M08	B1
1M10	B1
1M11	A2
1M12	A1
1M13	A2
1M14	A1
1M48	B2
1M49	B2
2001	B1
2002	B2
2003	B2
2004	B2
2005	B2
2006	B2
2007	B1
2008	B1
2009	B2
2010	B2
2011	B2
2012	B2
2020	A2
2021	A2
2022	A2
2023	A2
2024	A2
2025	A2
2030	A2
2031	A2
2032	A2
2033	A2
2034	A2
2035	A2
2040	A1
2041	A1
2042	A2
2043	A2
2044	A1
2045	A1
2050	A2
2051	A2
2052	A2
2053	A2
2054	B2
2055	B2
2060	A1
2061	A1
2062	A1
2063	A1
2064	A1
2065	A1
2070	A1
2071	A1
2072	A1
2073	A1
2074	A1
2075	A1
3001	B2
3002	B2
3003	B2
3004	B1
3005	B1
3006	B1
3007	B1
3008	B2
3009	B2
3010	B2
3011	B2
3012	B2
3013	B2
3014	B2
3015	B2
3016	B2
3017	B2
3018	B2
3019	B2
3020	B2
3022	B2
3023	B2
3024	B2
3025	B2
3026	B2
3027	B2
3028	B2
3029	B2
3030	B2
3031	B2
3999	B1
5002	B2
5004	A2
5005	A1
5006	A1
5007	B1
5008	B1
5014	A2
5015	A1
5016	A1
6000	B2
6001	B2
6002	B2
6003	B2
6004	B1
6005	B1
6006	B2
6007	B2
6008	B2
6009	B2
6010	B1
6011	B1
7001	B2
7002	B2
7009	B2
7010	B2
7011	B1
7015	B2
7016	B2
7017	B1
7018	B2
7019	B2
7020	B1

Layout Ambi Light Panel (Bottom Side)


1
2
A
B
2046
2048
2038
2047
2049
2039
2036
2028
2029
2026
2027
2037
2077
2069
2079
2068
2076
2078
2057
2067
2059
2058
2066
2056
2087
2091
2086
2088
2089
2090
2083
2082
2084
2081
2085
2080
3104 131 6072.4
E_14620_166.eps
280105

2026	B1
2027	B1
2028	A1
2029	B1
2036	A1
2037	B1
2038	A1
2039	B1
2046	A1
2047	A1
2048	A1
2049	B1
2056	B2
2057	A1
2058	A1
2059	A2
2066	B1
2067	A2
2068	A1
2069	A1
2076	B1
2077	A1
2078	B1
2079	A1
2080	B2
2081	B2
2082	A2
2083	A2
2084	A2
2085	B2
2086	A2
2087	A2
2088	A2
2089	B2
2090	B2
2091	A2

SSB: IF, I/O Video Processing


B2
IF, I/O VIDEO PROCESSING
B
HIP
7323
TDA9320H
SUPPLY
CTRL
SYNC
IF DEM
GROUP DELAY COR.
I/O SWITCH
LUMA & CHROMA PROC.
OUTP SWITCH
1409-A OFWK3953L SAW-FILTER AUDIO
1410-A OFWK9656L SAW-FILTER-VIDEO
1408-A OFWK3953L SAW-FILTER VIDEO
MODULATOR COIL
5CCE 5403
COIL 40.4 SUPPRESSION
1406 TPWKA
1407 TPWKA
1411 SFSKA
7307 TDA9181
INPSEL
VCC
VDD
CLAMP
2H/4H DELAY
ADAPTIVE COMB FILTER
SAND-CASTLE
FILTER TUNING
CLOCK GEN
+5V_VDP
+5VCOM
+8V_CON
+8V_VDP
+8VP
+5VS
IF-TER
LMN
SOUND-OUTPUT
AGC-MONITOR
R-SC1_V-IN
G-SC1-IN_Y-IN
B-SC1-IN_U-IN
FBL-SC1-IN
SC2-R_C-IN_AV2
SC2-G-IN
SC2-B-IN_C-OUT
SC2-FBL-IN
COMB-Y_CVBS-OUT
YOUT-3D
COUT-3D
COMB-C-OUT
CVBS-TXT
1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I

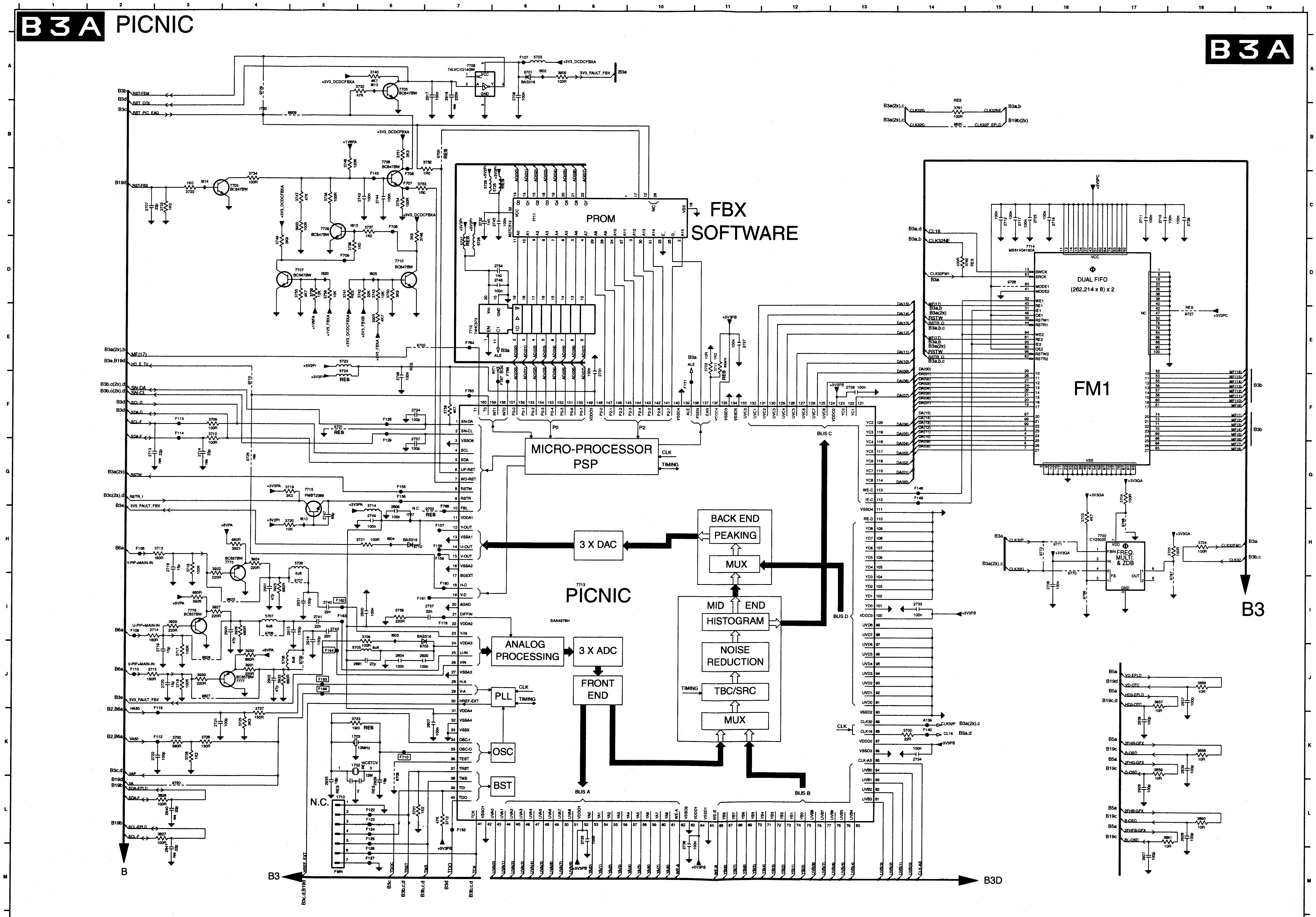
8204 000 8345.4

E_14620_084.eps
070704

1305	E11
1306	E11
1307	E12
1308	E12
1406	E4
1407	E5
1408-A	G3
1408-B	G3
1409-A	C3
1409-B	D3
1410-A	E3
1410-B	F3
1411	G6
2300	F7
2302	H14
2305	C11
2316	C11
2322	C11
2327	D12
2339	H7
2350	A11
2351	A11
2352	A11
2353	I12
2354	G12
2355	C12
2356	F10
2357	F11
2358	F11
2359	F11
2360	F11
2361	F13
2362	F13
2364	C12
2365	F7
2366	F8
2367	F8
2368	F8
2369	F8
2370	F8
2371	B10
2372	B10
2373	B8
2374	B8
2375	B8
2376	B7
2377	B6
2378	B7
2379	F12
2380	F12
2381	F12
2382	F12
2383	D12
2384	F7
2385	G13
2387	B7
2388	A11
2389	B12
2391	B3
2392	B8
2394	B6
2401	C6
2402	G6
2403	F9
2404	D6
2405	D1
2406	G2
2407	G3
2408	H3
2409	C6
2410	G9
2411	D6
2412	C1
2413	D5
2414	H6
2415	H6
2416	C6
2417	E6
2418	D6
2419	D7
2420	G8
2421	G14
2422	E13
2423	G14
2424	H11
2425	B1
2426	H13
2427	I14
2428	I14
2432	D11
2433	G9
2434	F9
2435	G9
2436	C6
3300	G7
3301	I12
3303	H10
3370	F9
3371	H9
3372	H9
3376	B9
3377	B10
3378	B10
3380	B7
3382	F7
3385	G7
3393	F11
3400	B5
3401	B6
3402	B1
3404	I6
3405	H5
3406	G2
3407	F2
3408	B5
3409	G2
3410	E3
3411	D2
3412	G6
3413	F9
3414	D2
3415	B4
3416	D5
3417	G5
3418	D7
3419	E5
3420	G6
3421	F4
3422	G9
3423	H1
3433	G1
3434	E2
3435	G5
3436	E6
3437	D7
3439	E6
3441	B4
3444	B11
3445	F6
3447	B11
3448	B12
3449	B12
3450	E14
3451	F13
3452	F14
3456	G5
3457	H5
3460	D13
3461	D13
3462	D13
3463	B4
3468	H11
3473	D11
3474	F8
3475	G9
3476	H9
5309	H14
5310	H14
5311	I14
5312	F14
5318	F7
5401	D2
5402	E5
5403	H2
5404	B6
5405	B6
5406	E5
5408	D6
5411	C1
5416	B3
6402	E2
6403	D2
6404	G2
6405	E2
7307	G11
7320	F9
7322	E7
7323	D9
7401	F2
7402	H7
7403	D2
7405	H1
7406	F5
7407	G5
7408	A11
7409	A12
7410	H5
7411	D6
7412	F14
7413	D13
7414	D11
7415	H9
9318	G11
9319	G11
9322	G8
9401	F3
9402	E2
9403	E2
9404	F6
9405	E2
9406	F13
9407	B4
9408	H7
9409	E5
9410	B4
9412	G6
9413	F6
9414	E7
9415	C3
9416	D5
9417	D6
9418	E5
9419	E7
9420	F5
9422	H6
9423	C11
9424	C11
9425	C11
9426	D11
9427	G7
9428	H7
A400	G2
A409	C5
A410	C5
A411	C4
A412	C4
F401	D7
F403	C7
F404	E12
F405	E12
F406	E12
F407	B10
F408	B10
F411	C6
F413	B6
F437	D1
F440	B7
I401	H9
I402	C7
I411	B4
I415	H8
I417	F8
I421	B8
I422	B8
I424	E13
I425	F14
I426	F14
I427	F14
I428	F13
I430	H13
I431	H14
I432	I12
I433	I11
I434	H11
I435	H11
I440	B4
I441	B7
I442	B7
I443	B6
I444	B5
I445	B5
I446	D5
I447	D5
I448	E6
I449	F7
I450	H6
I451	H5
I452	B1
I453	B11
I454	B11
I455	B12
I456	D13
I457	D14
I458	E4
I460	F2
I461	F5
I462	G5
I463	H5
I464	F9
I465	G9
I467	E7
c002	A8

SSB: PICNIC

B3A PICNIC


B3A
PROM
FBX SOFTWARE
MICRO-PROCESSOR PSP
PICNIC
SAA4978H
3 X DAC
BACK END
PEAKING
MUX
MID
END
HISTOGRAM
NOISE REDUCTION
TBC/SRC
MUX
ANALOG PROCESSING
3 X ADC
FRONT END
PLL
OSC
BST
BUS A
BUS B
BUS C
BUS D
FM1
DUAL FIFO (262,214 x 8) x 2
M5M4V4169
FREQ. MULTI. & ZDB
CY2302
74LVC1G14GW
M27C512
74HC373
BC847BW
BC857BW
PMBT2369
BAS316
12MHz
N.C.
FMN
TIMING
CLK
B3
B3D
B3
B

* SEE MAPPING I1 ON B3c

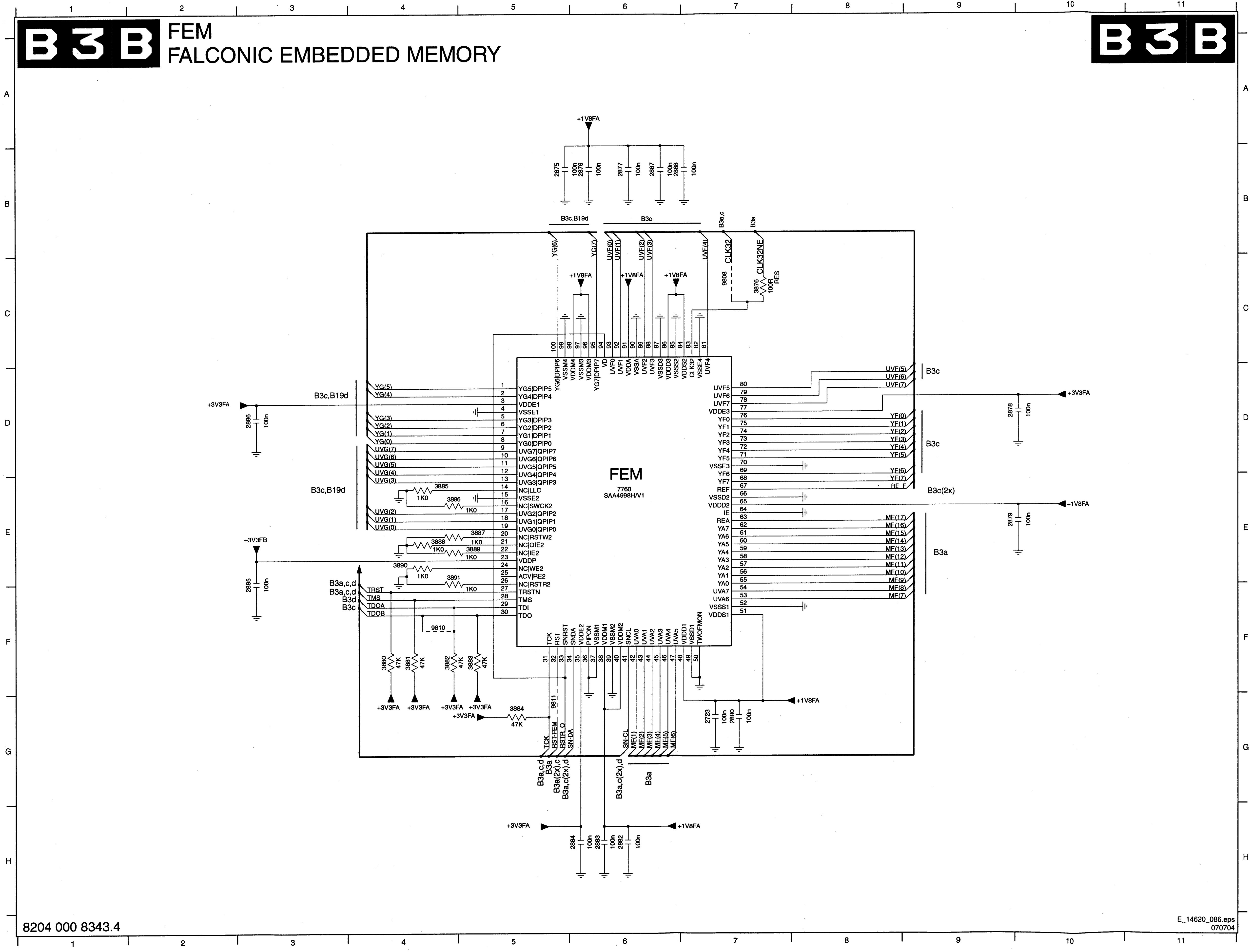
** SEE MAPPING G1 ON B3c

8204 000 8343.4

E_14620_085.eps
070704

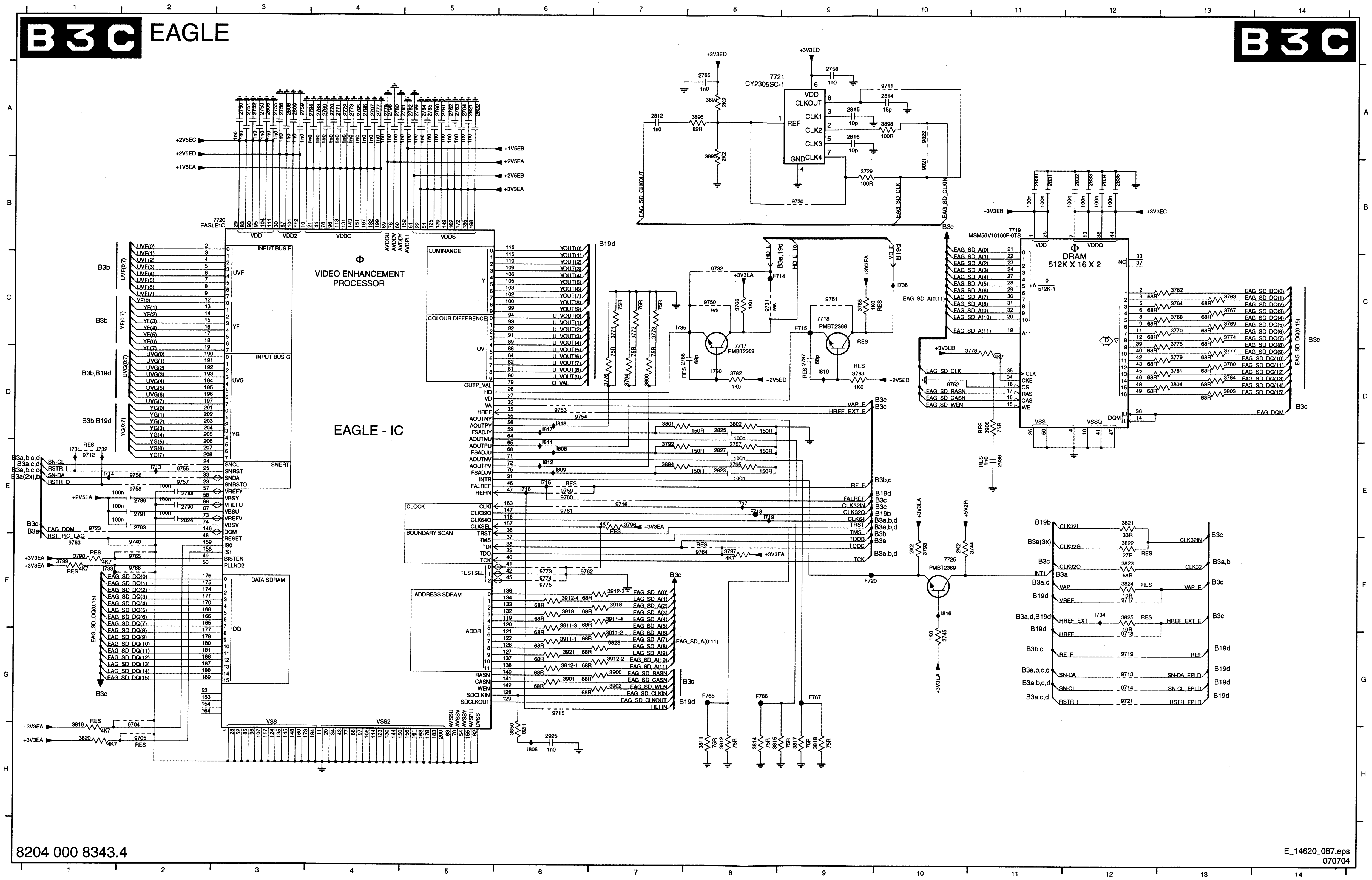
1702	K6
1703	K6
1710	L5
2707	C2
2708	I16
2709	A8
2710	C17
2711	C17
2712	C15
2713	G2
2714	G3
2716	C16
2717	C15
2718	H3
2719	J3
2720	J3
2721	K3
2722	K3
2724	F6
2725	C16
2726	F13
2727	E11
2731	F9
2732	C7
2733	I14
2734	K14
2735	L9
2736	M10
2737	G6
2738	C18
2740	I5
2741	I5
2742	I5
2743	C6
2744	C6
2745	C8
2746	D8
2747	H5
2748	F6
2749	H6
2754	D8
2757	I7
2800	I6
2804	J6
2806	H6
2807	K7
2837	J18
2838	K17
2839	K18
2840	L3
2841	M3
2881	J6
2900	I4
2901	I4
2902	J4
2915	I5
2916	J5
2917	A7
2918	A7
2920	J7
2926	L17
2927	M17
2928	L18
2929	L6
2931	I5
2935	L5
3700	K14
3701	L6
3702	E11
3703	H16
3704	G17
3705	H18
3706	I6
3709	F3
3710	F3
3711	E11
3712	L7
3713	H3
3714	I3
3715	J3
3716	H3
3717	J3
3718	J3
3719	G5
3720	H5
3721	H6
3722	C3
3723	K6
3724	H18
3725	K4
3726	K3
3727	K4
3728	K3
3730	K3
3732	A6
3733	C3
3734	C4
3736	C5
3737	C6
3738	D5
3739	D5
3740	A6
3741	D5
3742	D6
3743	D6
3746	D6
3747	C5
3748	B5
3749	D4
3750	D6
3751	B6
3752	B7
3753	C6
3754	C6
3755	D5
3756	D5
3758	F7
3759	I6
3760	D15
3761	B14
3826	L3
3827	L3
3856	J18
3857	J17
3858	K18
3859	K17
3860	L18
3861	L18
3903	C5
3905	E6
3909	A9
3922	H3
3923	H4
3924	H4
3925	I4
3926	I4
3927	I3
3928	I3
3929	I3
3930	J3
3931	J4
3932	J4
3933	J4
5703	A8
5705	J6
5706	H5
5707	I4
5708	J4
5714	H6
5723	E5
5724	F5
5725	C8
5726	C7
5727	D7
5728	D7
6701	A8
6703	J7
6710	H6
7702	H17
7703	C4
7705	A6
7706	A7
7707	D5
7708	B6
7709	C5
7710	D6
7711	C8
7712	E7
7713	I9
7714	D16
7715	G5
7775	H4
7776	I3
7777	J4
9700	B7
9701	F5
9702	E6
9703	H7
9706	L6
9707	I5
9708	I4
9709	J5
9710	F4
9720	L3
9726	G4
9727	E18
9728	D15
9729	A4
9767	I18
9768	H17
9769	I16
9770	H16
9771	H16
9772	H16
9809	B5
9820	B14
9825	I4
9826	J3
9827	J3
A139	K14
F107	A8
F108	H2
F109	I2
F110	J2
F112	K3
F114	F3
F115	F3
F118	I7
F119	K3
F122	L6
F123	L6
F124	L6
F125	L6
F126	M6
F127	M6
F128	F6
F129	G6
F140	K14
F145	C6
F148	G14
F149	G14
F151	F10
F152	L7
F155	G6
F156	G6
F157	H7
F158	H7
F159	H7
F160	I7
F161	I6
F162	I5
F163	I5
F164	J5
F165	J5
F166	J5
F706	C6
F707	C6
F708	C6
F709	D5
F710	K6
F784	E7
F785	F7
F786	E8
F787	F8
F788	H7
I720	B4
I727	H6
I802	A8
I803	I6
I804	H6
I805	D6
I810	H5
I813	A6
I814	C3
I815	C5
I820	D5

SSB: (FEM) Falconic Embedded Memory


B3B
FEM
FALCONIC EMBEDDED MEMORY
B3B
FEM
7760
SAA4998H/V1
+1V8FA
+3V3FA
+3V3FB
B3c,B19d
B3c
B3a,c
B3a
B3c(2x)
B3a,c,d
B3d
B3a(2x),c
B3a,c(2x),d
CLK32
CLK32NE
TRST
TMS
TDOA
TDOB
TCK
RST-FEM
RSTR_O
SN-DA
SN-CL
8204 000 8343.4
E_14620_086.eps
070704

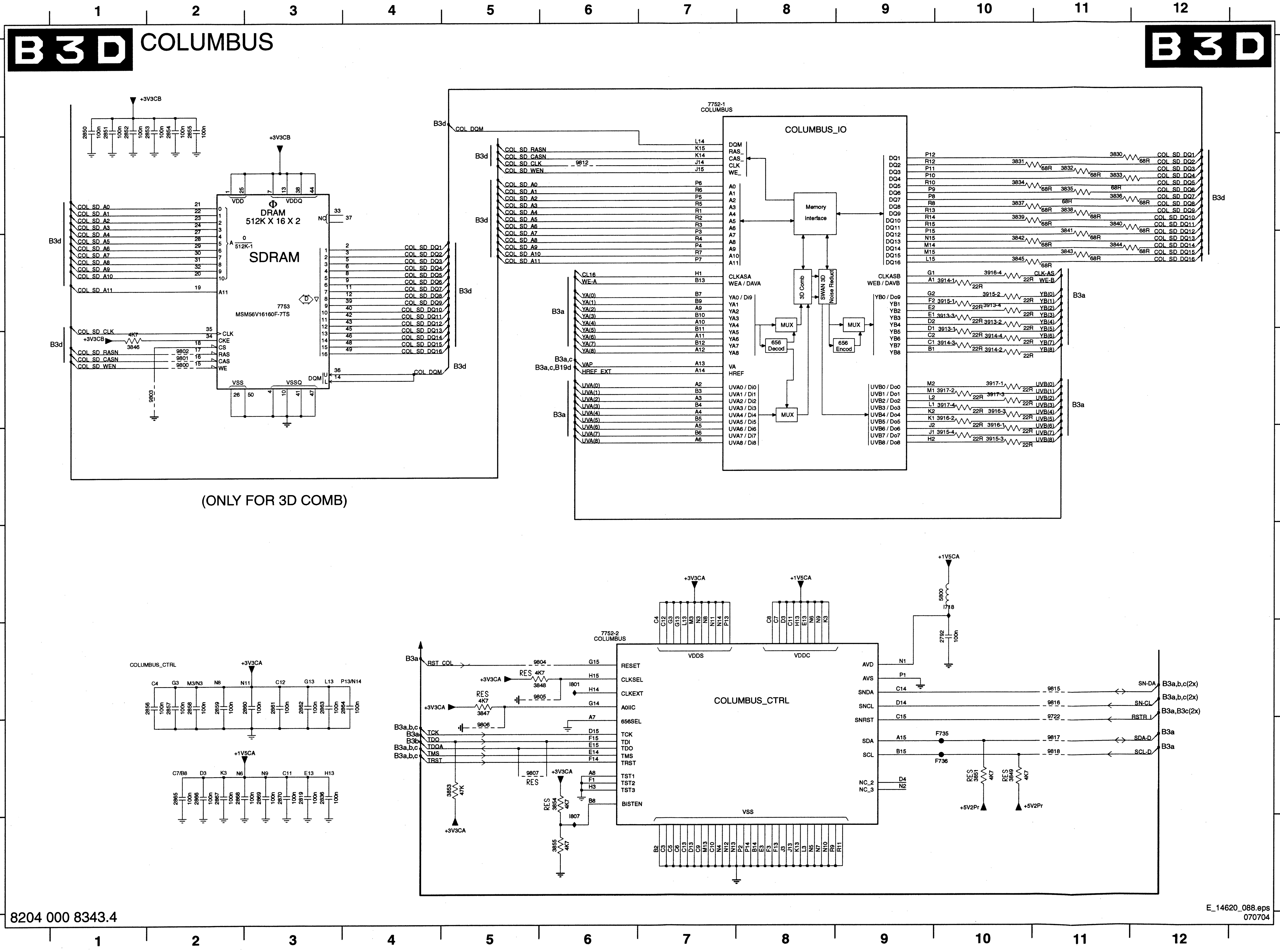
2723	G7
2875	B5
2876	B6
2877	B6
2878	D9
2879	E9
2880	G7
2882	H6
2883	H6
2884	H6
2885	E3
2886	D3
2887	B6
2888	B6
3876	C7
3880	F4
3881	F4
3882	F4
3883	F5
3884	G5
3885	E4
3886	E4
3887	E5
3888	E4
3889	E5
3890	E4
3891	E4
7760	E6
9808	C7
9810	F4
9811	G5

SSB: Eagle


B3C
EAGLE
B3C
VIDEO ENHANCEMENT PROCESSOR
EAGLE - IC
7720 EAGLE1C
INPUT BUS F
INPUT BUS G
LUMINANCE
COLOUR DIFFERENCE
CLOCK
BOUNDARY SCAN
DATA SDRAM
ADDRESS SDRAM
7721 CY2305SC-1
7719 MSM56V16160F-6TS
DRAM 512K X 16 X 2
7717 PMBT2369
7718 PMBT2369
7725 PMBT2369
+3V3ED
+3V3EA
+3V3EB
+3V3EC
+2V5EC
+2V5ED
+2V5EA
+2V5EB
+1V5EA
+1V5EB
+5V2Pr
EAG_SD_CLKOUT
EAG_SD_CLKIN
EAG_SD_A(0:11)
EAG_SD_DQ(0:15)
EAG_SD_CLK
EAG_SD_RASN
EAG_SD_CASN
EAG_SD_WEN
EAG_DQM
RST_PIC_EAG
SN-CL
SN-DA
RSTR_I
RSTR_O
CLK32I
CLK32G
CLK32O
CLK32IN
CLK32
VAP_E
HREF_EXT_E
REF_F
SN-DA_EPLD
SN-CL_EPLD
RSTR_EPLD
B3a
B3b
B3c
B19b
B19d
8204 000 8343.4
E_14620_087.eps
070704

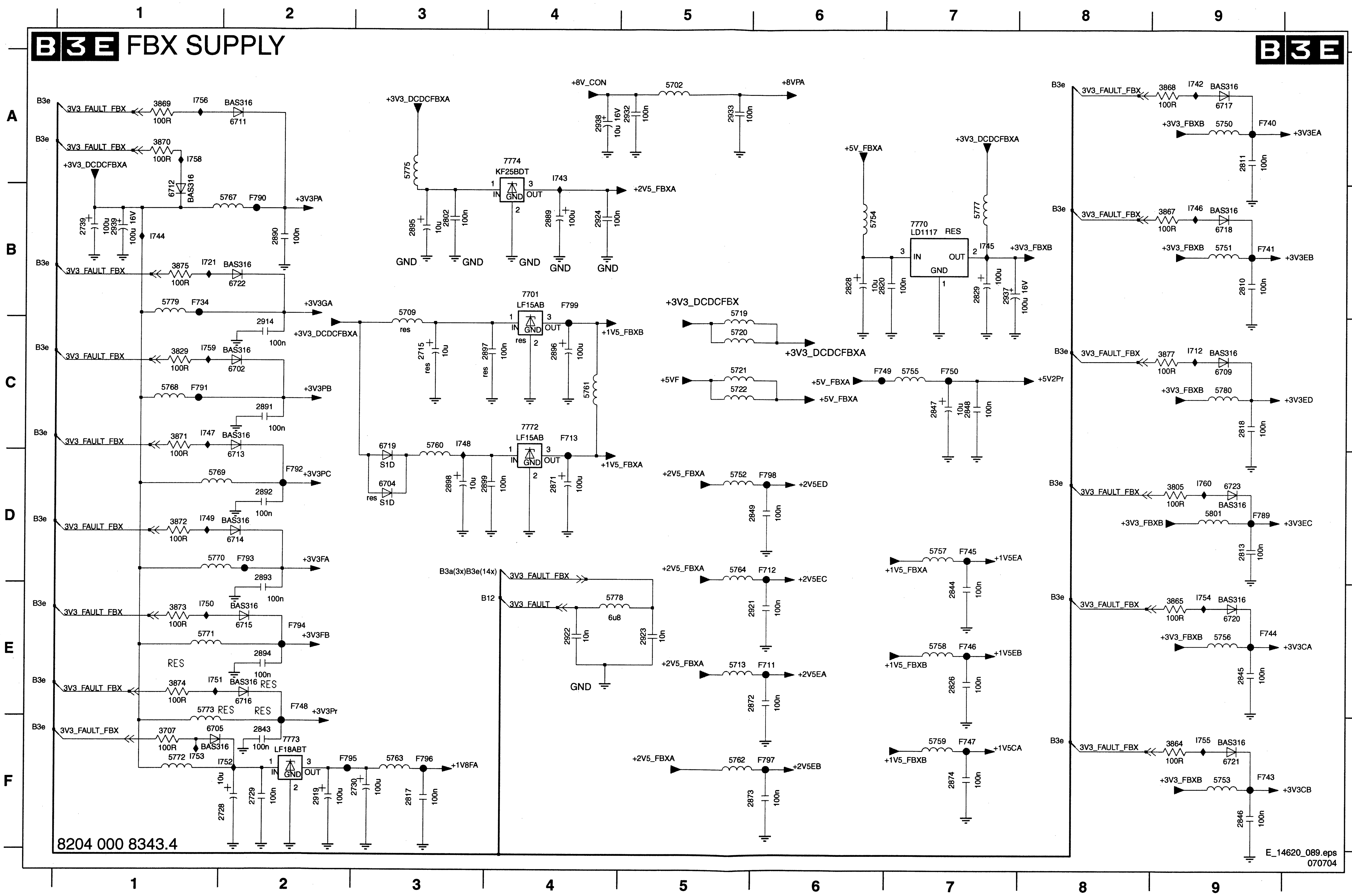
2750	A3
2751	A3
2752	A3
2753	A3
2755	A3
2756	A3
2758	A9
2759	A3
2760	A5
2761	A5
2762	A5
2763	A5
2764	A5
2765	A8
2768	A4
2769	A4
2770	A4
2771	A4
2772	A4
2773	A4
2777	A4
2778	A4
2780	A4
2781	A4
2782	A5
2784	A5
2785	A5
2786	D7
2787	D9
2788	E2
2789	E2
2790	E2
2791	E2
2793	E2
2794	A4
2795	A4
2796	A4
2797	A4
2798	A4
2799	A5
2805	A3
2808	A3
2809	A3
2812	A7
2814	A10
2815	A9
2816	A9
2821	A5
2822	A5
2823	E8
2824	E2
2825	D8
2827	E8
2830	B11
2831	B11
2832	B12
2833	B12
2834	B12
2835	B12
2925	H6
2936	E11
3729	B9
3744	F11
3745	G10
3757	E8
3762	C13
3763	C13
3764	C13
3765	C9
3766	C8
3767	C13
3768	C13
3769	C13
3770	C13
3771	C7
3772	C7
3773	C7
3774	C13
3775	C13
3776	D7
3777	D13
3778	D11
3779	D13
3780	D13
3781	D13
3782	D8
3783	D9
3784	D13
3792	E7
3793	F10
3794	D7
3795	E8
3796	E7
3797	F8
3798	F1
3799	F1
3800	D7
3801	D7
3802	D8
3803	D13
3804	D13
3811	H8
3812	H8
3814	H8
3815	H8
3817	H9
3818	H9
3819	H1
3820	H1
3821	E12
3822	F12
3823	F12
3824	F12
3825	F12
3850	H6
3894	E7
3895	A8
3896	A8
3897	A8
3898	A10
3900	G7
3901	G6
3902	G7
3906	D11
3911-1	G6
3911-2	G7
3911-3	F6
3911-4	F7
3912-1	G6
3912-2	G7
3912-3	F7
3912-4	F6
3918	F7
3919	F6
3921	G6
7717	D8
7718	C9
7719	B11
7720	B3
7721	A9
7725	F10
9704	H2
9705	H2
9711	A10
9712	E1
9713	G12
9714	G12
9715	G6
9716	E7
9717	F12
9718	G12
9719	G12
9721	G12
9723	E1
9730	B9
9731	C8
9732	C8
9740	F2
9750	C8
9751	C9
9752	D10
9753	D6
9754	D6
9755	E2
9756	E2
9757	E2
9758	E2
9759	E6
9760	E6
9761	E6
9762	F6
9763	F1
9764	F8
9765	F2
9766	F2
9773	F6
9774	F6
9775	F6
9821	B10
9822	A10
9823	G7
F714	C8
F715	C9
F718	E8
F720	F9
F765	G8
F766	G8
F767	G9
I713	E2
I714	E1
I715	E6
I716	E6
I717	E8
I719	E8
I730	D8
I731	E1
I732	E1
I733	F1
I734	F12
I735	C7
I736	C10
I806	H6
I808	E6
I809	E6
I811	E6
I812	E6
I816	F10
I817	D6
I818	D6
I819	D9

SSB: Columbus


B3D COLUMBUS
B3D
+3V3CB
DRAM
512K X 16 X 2
SDRAM
7753
MSM56V16160F-7TS
(ONLY FOR 3D COMB)
7752-1
COLUMBUS
COLUMBUS_IO
Memory interface
3D Comb
SWAN 3D Noise Reduct
MUX
656 Decod
656 Encod
B3d
B3a
B3a,c
B3a,c,B19d
COLUMBUS_CTRL
+3V3CA
+1V5CA
7752-2
COLUMBUS
COLUMBUS_CTRL
VDDS
VDDC
VSS
RESET
CLKSEL
CLKEXT
ADIIC
656SEL
TCK
TDI
TDO
TMS
TRST
TST1
TST2
TST3
BISTEN
AVD
AVS
SNDA
SNCL
SNRST
SDA
SCL
NC_2
NC_3
B3a,b,c(2x)
B3a,b,c(2x)
B3a,B3c(2x)
B3a
B3a
+5V2Pr
8204 000 8343.4
E_14620_088.eps
070704

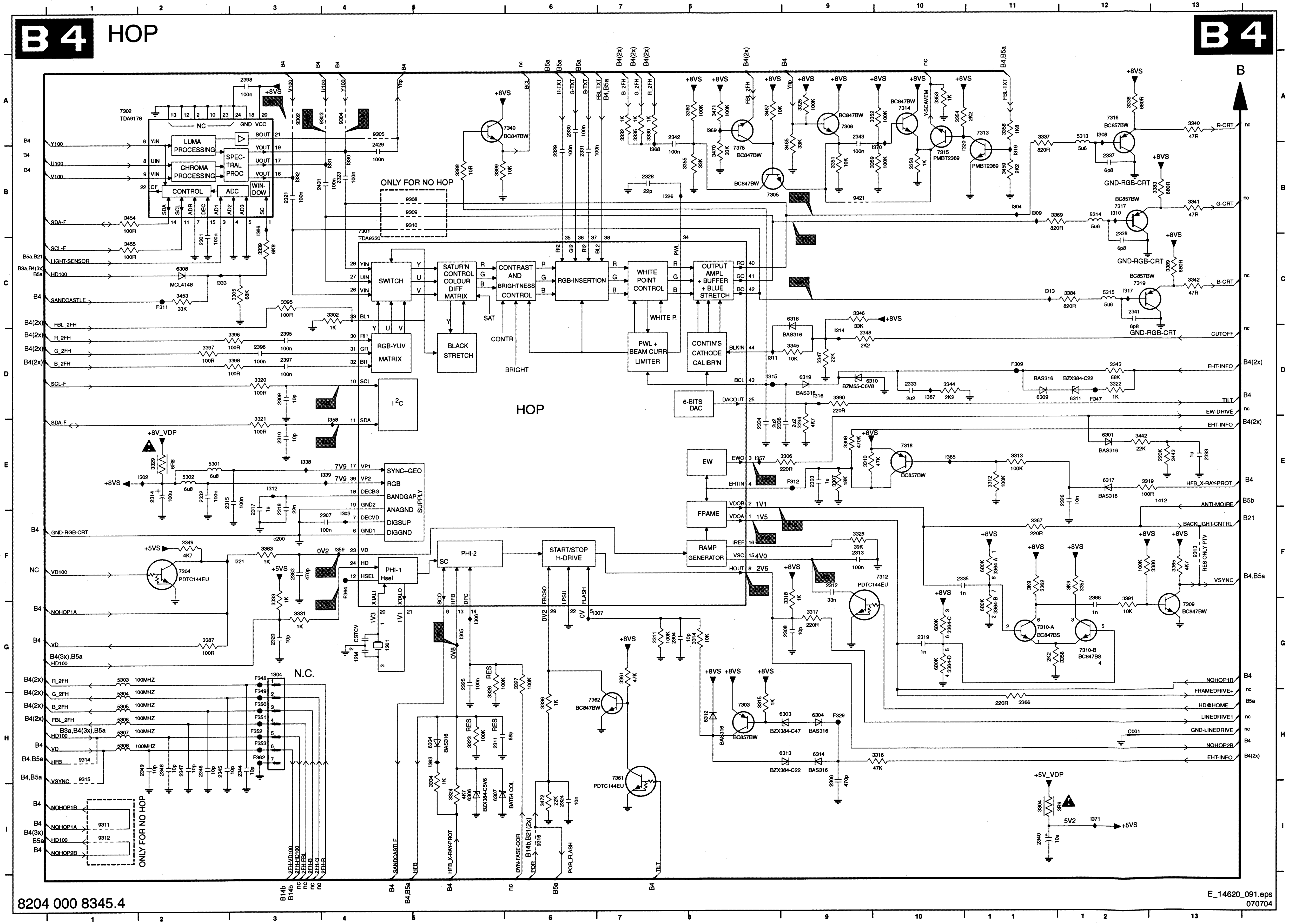
2792	G10
2819	H3
2836	H3
2850	A1
2851	A1
2852	A1
2853	A2
2854	A2
2855	A2
2856	G2
2857	G2
2858	G2
2859	G2
2860	G3
2861	G3
2862	G3
2863	G3
2864	G4
2865	H2
2866	H2
2867	H2
2868	H2
2869	H3
2870	H3
3830	B11
3831	B10
3832	B11
3833	B11
3834	B10
3835	B11
3836	B11
3837	B10
3838	B11
3839	B10
3840	B11
3841	C11
3842	C10
3843	C11
3844	C11
3845	C10
3846	D1
3847	G5
3848	G6
3849	H10
3851	H10
3853	H5
3854	H6
3855	I6
3913-1	D10
3913-2	C10
3913-3	C10
3913-4	C10
3914-1	C10
3914-2	D10
3914-3	D10
3914-4	D10
3915-1	C10
3915-2	C10
3915-3	E10
3915-4	E10
3916-1	E10
3916-2	D10
3916-3	D10
3916-4	C10
3917-1	D10
3917-2	D10
3917-3	D10
3917-4	D10
5800	F10
7752-1	A7
7752-2	G6
7753	C3
9722	H11
9800	D2
9801	D2
9802	D2
9803	D2
9804	G6
9805	G6
9806	H5
9807	H5
9812	B6
9815	G11
9816	G11
9817	H11
9818	H11
F735	H10
F736	H10
I718	F10
I801	G6
I807	I6

SSB: FBX Supply


B3E FBX SUPPLY
B3E
3V3_FAULT_FBX
3869 100R
I756
BAS316 6711
3870 100R
I758
+3V3_DCDCFBXA
6712 BAS316
5767
F790
+3V3PA
2739 100u
2939 100u 16V
I744
2890 100n
3875 100R
I721
BAS316 6722
5779
F734
+3V3GA
2914 100n
3829 100R
I759
BAS316 6702
5768
F791
+3V3PB
2891 100n
3871 100R
I747
BAS316 6713
5769
F792
+3V3PC
2892 100n
3872 100R
I749
BAS316 6714
5770
F793
+3V3FA
2893 100n
3873 100R
I750
BAS316 6715
5771
F794
+3V3FB
2894 100n
RES
3874 100R
I751
BAS316 6716 RES
5773 RES
F748
+3V3Pr
3707 100R
6705
BAS316
I753
2843 100n
7773 LF18ABT
5772
I752
F795
5763
F796
+1V8FA
2728 10u
2729 100n
2919 100u
2730 100u
2817 100n
8204 000 8343.4
+3V3_DCDCFBXA
5775
7774 KF25BDT
IN GND OUT
I743
+2V5_FBXA
2895 10u
2802 100n
2889 100u
2924 100n
GND
5709 res
+3V3_DCDCFBXA
2715 res 10u
2897 res 100n
7701 LF15AB
F799
+1V5_FBXB
2896 100u
5761
6719 S1D
6704 res S1D
5760
I748
2898 10u
2899 100n
7772 LF15AB
F713
+1V5_FBXA
2871 100u
B3a(3x)B3e(14x)
3V3_FAULT_FBX
B12
3V3_FAULT
5778 6u8
2922 10n
2923 10n
GND
+8V_CON
5702
+8VPA
2938 10u 16V
2932 100n
2933 100n
+3V3_DCDCFBX
5719
5720
+3V3_DCDCFBXA
+5VF
5721
5722
+5V_FBXA
+2V5_FBXA
5752
F798
+2V5ED
2849 100n
5764
F712
+2V5EC
2921 100n
5713
F711
+2V5EA
2872 100n
5762
F797
+2V5EB
2873 100n
+5V_FBXA
5754
7770 LD1117 RES
I745
+3V3_FBXB
2828 10u
2820 100n
2829 100u
2937 100u 16V
5777
F749
5755
F750
+5V2Pr
2847 10u
2848 100n
+1V5_FBXA
5757
F745
+1V5EA
2844 100n
+1V5_FBXB
5758
F746
+1V5EB
2826 100n
5759
F747
+1V5CA
2874 100n
3868 100R
I742
BAS316 6717
+3V3_FBXB
5750
F740
+3V3EA
2811 100n
3867 100R
I746
BAS316 6718
5751
F741
+3V3EB
2810 100n
3877 100R
I712
BAS316 6709
5780
+3V3ED
2818 100n
3805 100R
I760
6723 BAS316
5801
F789
+3V3EC
2813 100n
3865 100R
I754
BAS316 6720
5756
F744
+3V3CA
2845 100n
3864 100R
I755
BAS316 6721
5753
F743
+3V3CB
2846 100n
E_14620_089.eps
070704
1 2 3 4 5 6 7 8 9
A B C D E F

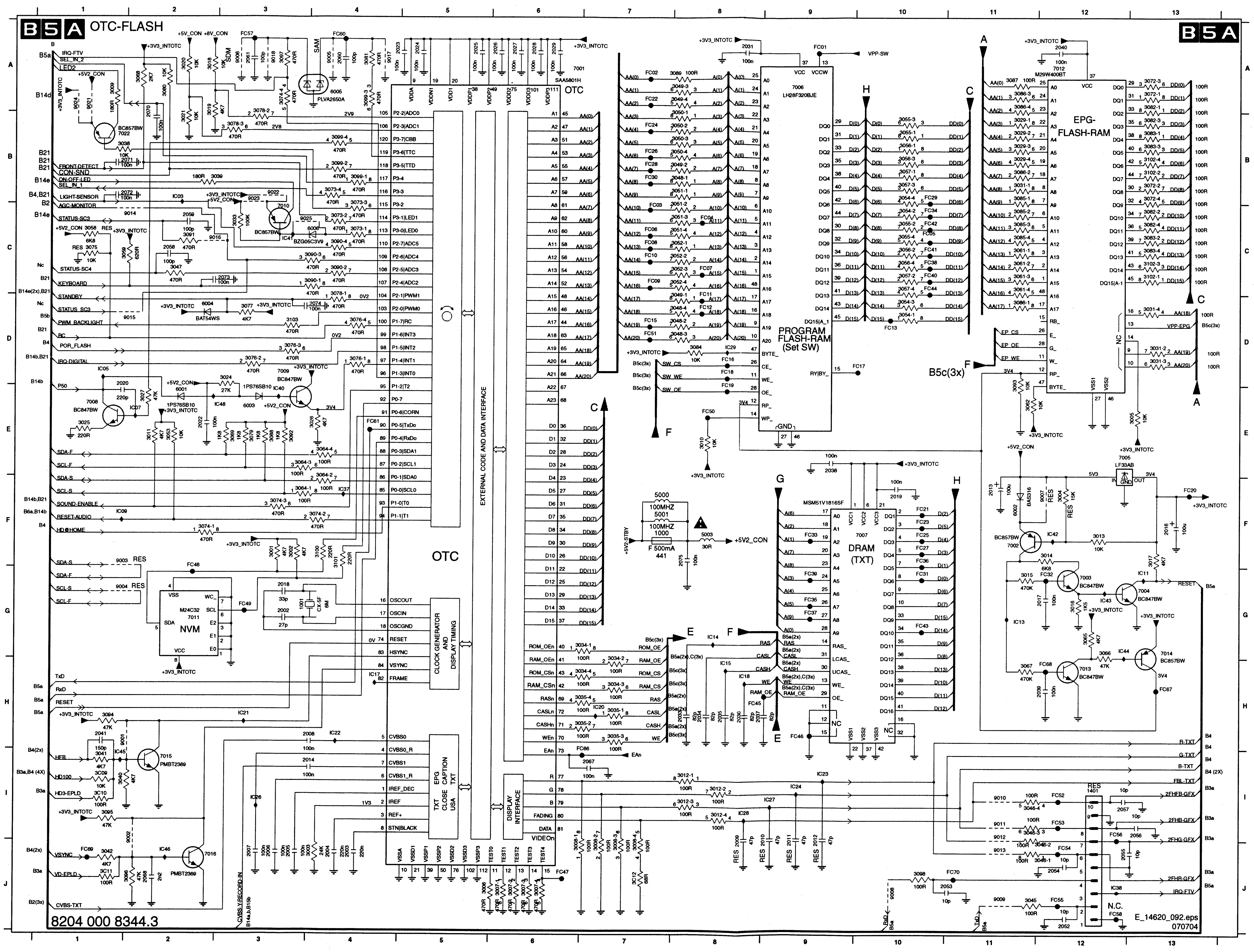
2715	C3
2728	F2
2729	F2
2730	F3
2739	B1
2802	B3
2810	B9
2811	A9
2813	D9
2817	F3
2818	C9
2820	B6
2826	E7
2828	B6
2829	B7
2843	F2
2844	E7
2845	E9
2846	F9
2847	C7
2848	C7
2849	D6
2871	D4
2872	E6
2873	F6
2874	F7
2889	B4
2890	B2
2891	C2
2892	D2
2893	D2
2894	E2
2895	B3
2896	C4
2897	C4
2898	D3
2899	D4
2914	C2
2919	F2
2921	E6
2922	E4
2923	E5
2924	B4
2932	A5
2933	A5
2937	B7
2938	A4
2939	B1
3707	F1
3805	D9
3829	C1
3864	F9
3865	E9
3867	B9
3868	A9
3869	A1
3870	A1
3871	C1
3872	D1
3873	E1
3874	E1
3875	B1
3877	C9
5702	A5
5709	B3
5713	E5
5719	B5
5720	C5
5721	C5
5722	C5
5750	A9
5751	B9
5752	D5
5753	F9
5754	B6
5755	C7
5756	E9
5757	D7
5758	E7
5759	F7
5760	C3
5761	C4
5762	F5
5763	F3
5764	D5
5767	B2
5768	C1
5769	D1
5770	D1
5771	E1
5772	F1
5773	E1
5775	A3
5777	B7
5778	E4
5779	B1
5780	C9
5801	D9
6702	C2
6704	D3
6705	F1
6709	C9
6711	A2
6712	B1
6713	D2
6714	D2
6715	E2
6716	E2
6717	A9
6718	B9
6719	C3
6720	E9
6721	F9
6722	B2
6723	D9
7701	B4
7770	B7
7772	C4
7773	F2
7774	A4
F711	E6
F712	D6
F713	C4
F734	B1
F740	A9
F741	B9
F743	F9
F744	E9
F745	D7
F746	E7
F747	F7
F748	E2
F749	C6
F750	C7
F789	D9
F790	B2
F791	C1
F792	D2
F793	D2
F794	E2
F795	F2
F796	F3
F797	F6
F798	D6
F799	B4
I712	C9
I721	B1
I742	A9
I743	A4
I744	B1
I745	B7
I746	B9
I747	C1
I748	C3
I749	D1
I750	E1
I751	E1
I752	F2
I753	F1
I754	E9
I755	F9
I756	A1
I758	A1
I759	C1
I760	D9

SSB: HOP


B4
HOP
B
7302
TDA9178
LUMA PROCESSING
CHROMA PROCESSING
SPEC-TRAL PROC
CONTROL
ADC
WIN-DOW
ONLY FOR NO HOP
7301
TDA9330
SWITCH
SATUR'N CONTROL COLOUR DIFF MATRIX
CONTRAST AND BRIGHTNESS CONTROL
RGB-INSERTION
WHITE POINT CONTROL
OUTPUT AMPL + BUFFER + BLUE STRETCH
RGB-YUV MATRIX
BLACK STRETCH
PWL + BEAM CURR LIMITER
CONTIN'S CATHODE CALIBR'N
I²C
HOP
6-BITS DAC
SYNC+GEO
RGB
BANDGAP
ANAGND
DIGSUP
DIGGND
SUPPLY
EW
FRAME
RAMP GENERATOR
PHI-2
PHI-1
START/STOP H-DRIVE
N.C.
ONLY FOR NO HOP
R-CRT
G-CRT
B-CRT
GND-RGB-CRT
CUTOFF
EHT-INFO
TILT
EW-DRIVE
HFB_X-RAY-PROT
ANTI-MOIRE
BACKLIGHT-CNTRL
VSYNC
NOHOP1B
FRAMEDRIVE+
HD@HOME
LINEDRIVE1
GND-LINEDRIVE
NOHOP2B
RES ONLY PTV
+8VS
+5VS
+8V_VDP
+5V_VDP
8204 000 8345.4
E_14620_091.eps
070704

1301	G4	3342	C13	7314	A10
1304	G3	3343	D12	7315	B10
1412	E13	3344	D10	7316	A12
2301	C2	3345	D9	7317	B12
2303	E9	3346	C9	7318	E10
2304	G7	3347	D9	7319	C12
2306	I9	3348	D9	7340	A5
2307	F4	3349	F2	7361	H7
2308	G9	3350	B10	7362	H7
2309	D3	3351	B9	7375	B8
2310	E3	3352	A9	9302	A3
2311	H5	3353	A10	9303	A4
2312	F9	3354	A10	9304	A4
2313	F9	3355	B7	9305	A4
2314	E2	3356	G12	9308	B4
2315	E2	3357	F12	9309	B4
2317	F3	3358	A11	9310	B4
2318	F3	3359	B9	9311	I1
2319	G10	3360	A7	9312	I1
2320	G3	3361	G7	9313	F13
2321	B3	3362	F11	9314	H1
2323	B4	3363	F3	9315	H1
2324	I6	3364-A	F11	9316	I6
2325	G5	3364-B	G11	9421	B9
2326	E12	3364-C	G10	C001	H12
2328	B7	3364-D	G10	F309	D11
2329	B6	3365	F13	F311	C2
2330	A6	3366	H11	F312	E9
2331	B6	3367	F11	F329	H9
2332	E2	3369	B11	F347	D12
2333	D10	3383	B13	F348	G3
2334	E8	3384	C12	F349	H3
2335	F10	3386	F13	F350	H3
2336	E8	3387	G2	F351	H3
2337	B12	3388	B5	F352	H3
2338	C12	3389	C13	F353	H3
2340	I11	3390	D9	F362	H3
2341	C12	3391	G12	F364	F4
2342	A7	3394	E9	I302	E2
2343	A9	3395	C3	I303	F4
2344	H3	3396	D3	I304	B11
2345	H2	3397	D2	I305	G5
2346	H2	3398	D3	I306	G5
2347	H2	3399	B5	I307	G7
2348	H2	3442	E12	I308	A12
2349	H2	3443	E13	I309	B11
2363	F3	3453	C2	I310	B12
2386	G12	3454	B1	I311	D8
2393	E13	3455	C1	I312	E3
2395	D3	3459	B11	I313	C11
2396	D3	3465	B9	I314	D9
2397	D3	3467	A8	I315	D8
2398	A3	3470	B8	I316	D9
2429	B4	3471	A8	I317	C12
2431	B3	3472	I6	I319	B11
3302	C4	5301	E2	I320	B10
3304	I11	5302	E2	I321	F3
3305	C3	5303	G1	I326	B7
3306	E9	5304	H1	I330	B4
3307	E9	5305	H1	I331	B4
3308	E9	5306	H1	I332	B3
3310	E9	5307	H1	I333	C2
3311	G7	5308	H1	I338	E3
3312	E11	5313	A12	I339	E4
3313	E11	5314	B12	I357	E8
3314	G8	5315	C12	I358	E4
3315	H8	6301	E12	I359	F4
3316	H10	6303	H9	I363	H5
3317	G9	6304	H9	I365	E10
3318	F9	6306	I5	I366	B3
3319	E12	6307	I5	I367	D10
3320	D3	6308	C2	I368	B7
3321	E3	6309	D11	I369	A8
3322	D12	6310	D9	I370	B10
3323	H5	6311	D12	I371	I12
3324	I5	6312	H8	c200	F3
3325	A9	6313	H9		
3326	H5	6314	H9		
3327	G6	6316	C9		
3328	F9	6317	E12		
3329	E2	6319	D9		
3330	A7	6334	H5		
3331	G3	7301	B4		
3332	A7	7302	A1		
3333	F3	7303	H8		
3334	H5	7304	F2		
3335	A7	7305	B8		
3336	H6	7306	A9		
3337	A11	7309	G13		
3338	A12	7310-A	G11		
3339	C3	7310-B	G12		
3340	A13	7312	F10		
3341	B13	7313	A11		

SSB: OTC-Flash


B5A OTC-FLASH
B5A
OTC
SAA5801H
7001
EXTERNAL CODE AND DATA INTERFACE
CLOCK GENERATOR AND DISPLAY TIMING
EPG CLOSE CAPTION TXT USA
DISPLAY INTERFACE
NVM
M24C32
7011
7006
LH28F320BJE
PROGRAM FLASH-RAM (Set SW)
7012
M29W400BT
EPG-FLASH-RAM
7007
MSM51V18165F
DRAM (TXT)
5000 100MHZ
5001 100MHZ
1000 F 500mA 441
5003 30R
+5V2_CON
+3V3_INTOTC
VPP-SW
7005 LF33AB
7002 BC857BW
7003 BC847BW
7004 BC847BW
7013 BC847BW
7014 BC857BW
7015 PMBT2369
7016 PMBT2369
7022 BC857BW
7008 BC847BW
7009 BC847BW
7010 BC857BW
6005 PLVA2650A
6004 BAT54WS
6001 1PS76SB10
6003 1PS76SB10
6002 BAS316
6006 BZG05C3V9
IRQ-FTV
SEL_IN_2
LED2
FRONT-DETECT
CON-SND
ON-OFF-LED
SEL_IN_1
LIGHT-SENSOR
AGC-MONITOR
STATUS-SC3
STATUS-SC4
KEYBOARD
STANDBY
STATUS_SC3
PWM_BACKLIGHT
RC
POR_FLASH
IRQ-DIGITAL
P50
SDA-F
SCL-F
SDA-S
SCL-S
SOUND-ENABLE
RESET-AUDIO
HD@HOME
TxD
RxD
RESET
HFB
HD100
HD3-EPLD
VSYNC
VD-EPLD
CVBS-TXT
R-TXT
G-TXT
B-TXT
FBL-TXT
2FHFB-GFX
2FHB-GFX
2FHG-GFX
2FHR-GFX
IRQ-FTV
RESET
8204 000 8344.3
E_14620_092.eps
070704

1000 F7
1001 G3
1401 I12
2002 G3
2003 J4
2004 J4
2005 J3
2006 J3
2007 J3
2008 H4
2009 I8
2010 I9
2011 I9
2012 I9
2013 F11
2014 I4
2016 F13
2017 G12
2018 G3
2019 F10
2020 E1
2022 E2
2023 A4
2024 A5
2025 A5
2026 A6
2027 A6
2028 A6
2029 A6
2031 A8
2033 H8
2034 H8
2035 H8
2036 H8
2037 H8
2038 E9
2039 H12
2040 A12
2041 H1
2052 J12
2053 J11
2054 J12
2055 J12
2056 I13
2057 I12
2058 C2
2059 C2
2060 A4
2061 A3
2067 I7
2068 J2
2070 B2
2071 B1
2072 B1
2073 C3
2074 D4
2075 F8
3001 F3
3002 F3
3003 J4
3004 F12
3005 E13
3006 J5
3007-1 J6
3007-2 J6
3007-3 J6
3007-4 J6
3008-1 J6
3008-2 J7
3008-3 J7
3008-4 J7
3009 A1
3010 E8
3011 E2
3012-1 I8
3012-2 I8
3012-3 I8
3012-4 I8
3013 F12
3014 F12
3015 G11
3016 G12
3017 F13
3018 A2
3019 A2
3020 A2
3021 B2
3024 D3
3025 E1
3026 E4
3027 E2
3029-1 B11
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3031-2 D13
3031-3 D13
3031-4 D13
3033 C3
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3034-2 H7
3034-3 H7
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3035-4 H7
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3040 I1
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3051-2 C8
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3051-4 C8
3052-1 C8
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3076-2 D3
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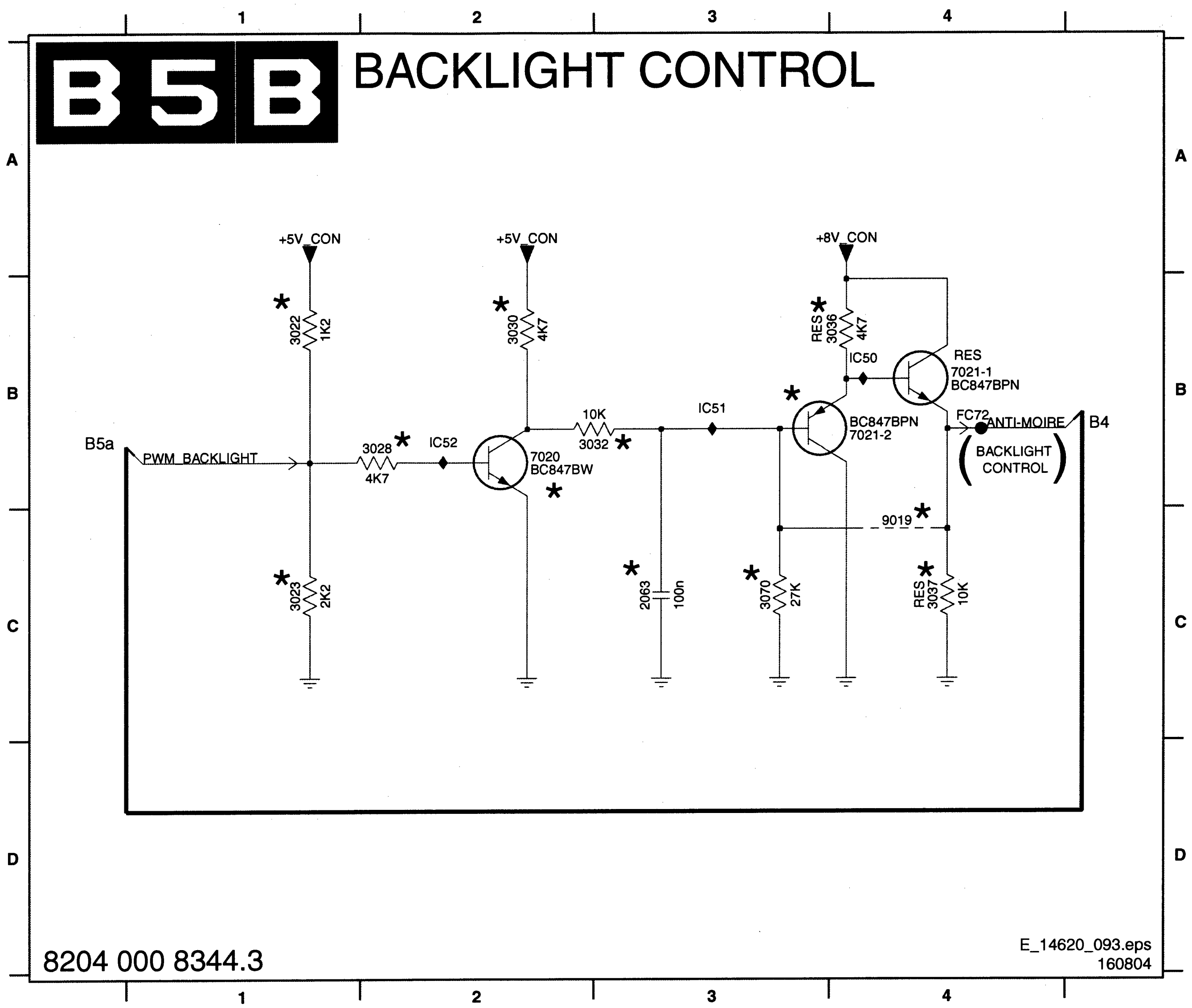
3090-3 C4
3090-4 C4
3091 C2
3092 E3
3093 D11
3094 H1
3095 I1
3096 J2
3097 A3
3098 J10
3099-1 B4
3099-2 B4
3099-3 A4
3099-4 B4
3100 F4
3101 F4
3102-1 C13
3102-2 B13
3102-3 C13
3102-4 B13
3103 D3
3C09 I1
3C10 I1
3C11 J1
3C12 J7
5000 F7
5001 F7
5003 F8
6001 E2
6002 F11
6003 E3
6004 D2
6005 A4
6006 C4
7001 A6
7002 F11
7003 G12
7004 G13
7005 E12
7006 A9
7007 F10
7008 E1
7009 D3
7010 C3
7011 G2
7012 A12
7013 H12
7014 G13
7015 I2
7016 J2
7022 B1
9001 H2
9002 I2
9003 F1
9004 G1
9005 A4
9006 A3
9007 F12
9008 J10
9009 J11
9010 I11
9011 I11
9012 I11
9013 J11
9014 C2
9015 D2
9016 C2
9017 A4
9018 A3
9021 A1
9022 B3
9023 B3
9024 A1
9025 C3
FC01 A9
FC02 A7
FC03 C7
FC04 C8
FC05 C10
FC06 C7
FC07 C8
FC08 C7
FC09 C7
FC10 C7
FC11 D8
FC12 D8
FC13 D10
FC15 D7
FC16 D8
FC17 D10
FC18 D8
FC19 E8
FC20 F13
FC21 F10
FC22 A7
FC23 F10
FC24 B7
FC25 F10
FC26 B7
FC27 F10
FC28 B7
FC29 B10
FC30 B7
FC31 G10
FC32 G12
FC33 F9
FC34 C10
FC35 G9
FC36 F10
FC37 G9
FC38 C10
FC39 G9
FC40 C10
FC41 C10
FC42 C10
FC43 G10
FC44 C10
FC45 H8
FC46 H9
FC47 J6
FC48 G2
FC49 G3
FC50 E8
FC51 D7
FC52 I12
FC53 I12
FC54 J12
FC55 J12
FC56 I12
FC57 A3
FC58 J12
FC60 A4
FC61 E4
FC66 I7
FC67 H13
FC68 H12
FC69 J1
FC70 J11
IC03 B2
IC05 D1
IC07 E2
IC09 F1
IC11 G13
IC13 G11
IC14 G8
IC15 H8
IC17 H4
IC18 H8
IC20 H7
IC21 H3
IC22 H4
IC23 I9
IC24 I9
IC26 I3
IC27 I9
IC28 I8
IC29 D8
IC37 F4
IC38 J12
IC40 E3
IC41 C3
IC42 F12
IC43 G12
IC44 G12
IC45 I1
IC46 J2
IC48 E3

SSB: Backlight Control

2063 C3
3022 B1
3023 C1
3028 B2
3030 B2
3032 B2
3036 B4
3037 C4
3070 C3
7020 B2
7021-1 B4
7021-2 B4
9019 C4
FC72 B4
IC50 B4
IC51 B3
IC52 B2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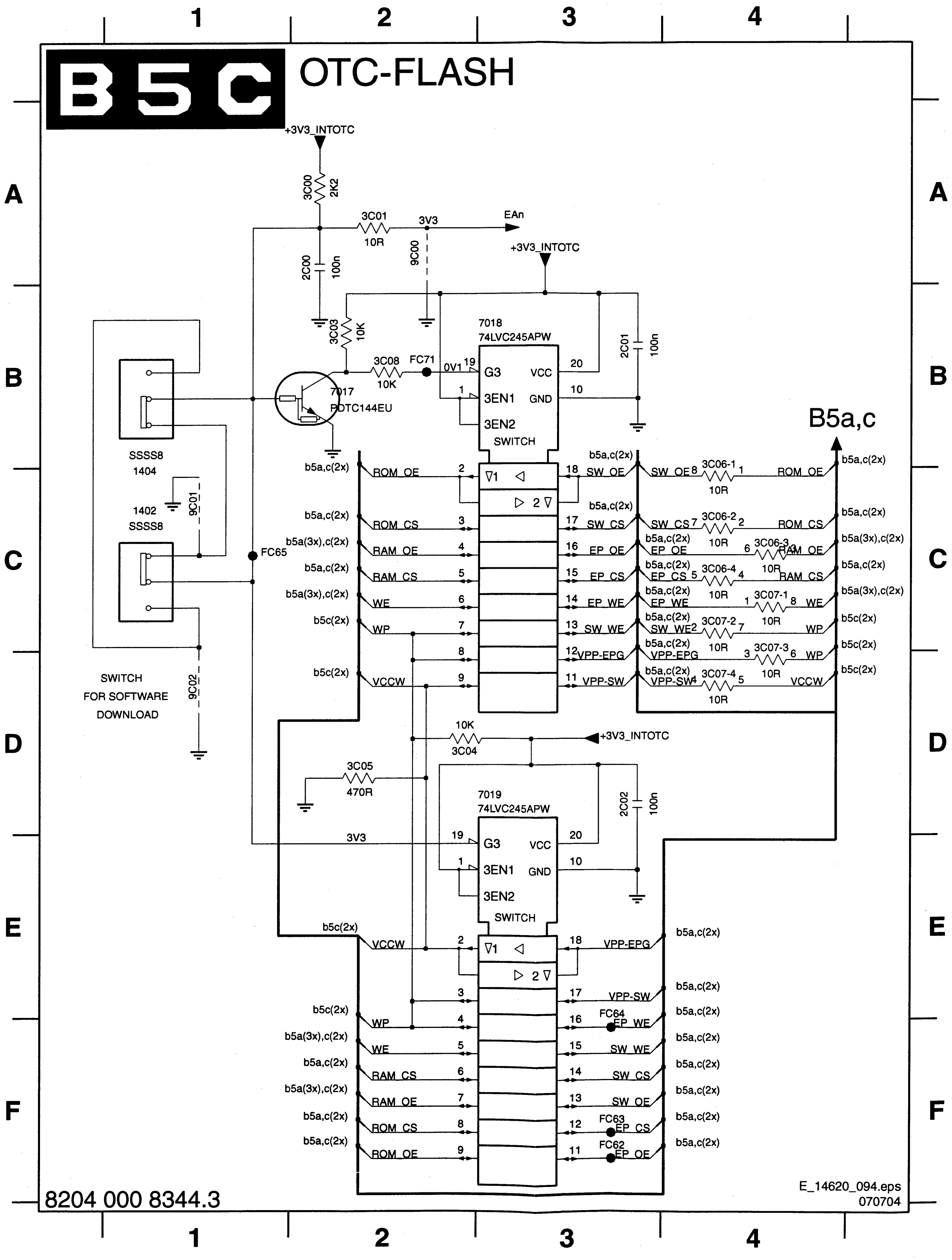
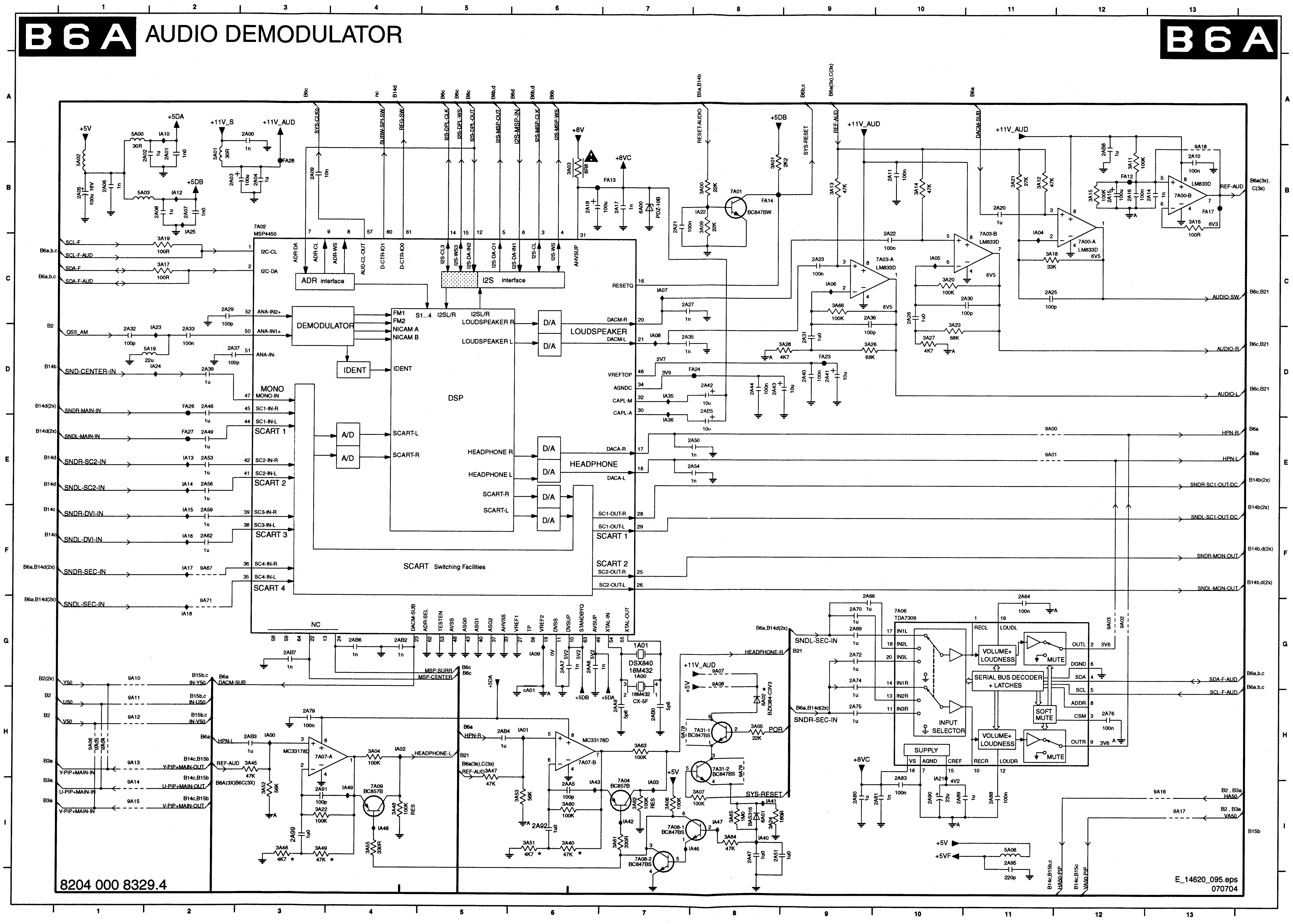
BACKLIGHT CONTROL
1
2
3
4
A
B
C
D
+5V_CON
+5V_CON
+8V_CON
3022 1K2
3030 4K7
RES 3036 4K7
IC50
RES 7021-1 BC847BPN
B5a
PWM_BACKLIGHT
3028 4K7
IC52
7020 BC847BW
10K 3032
IC51
BC847BPN 7021-2
FC72
ANTI-MOIRE
B4
BACKLIGHT CONTROL
9019
3023 2K2
2063 100n
3070 27K
RES 3037 10K
*
8204 000 8344.3
E_14620_093.eps
160804

SSB: OTC-Flash

1402 C1
1404 B1
2C00 A2
2C01 B3
2C02 D3
3C00 A2
3C01 A2
3C03 B2
3C04 D2
3C05 D2
3C06-1 C4
3C06-2 C4
3C06-3 C4
3C06-4 C4
3C07-1 C4
3C07-2 C4
3C07-3 D4
3C07-4 D4
3C08 B2
7017 B2
7018 B3
7019 D3
9C00 A2
9C01 C1
9C02 D1
FC62 F3
FC63 F3
FC64 E3
FC65 C1
FC71 B2


B5C
OTC-FLASH
1
2
3
4
A
B
C
D
E
F
+3V3_INTOTC
3C00 2K2
3C01 10R
3V3
EAn
9C00
2C00 100n
+3V3_INTOTC
3C03 10K
3C08 10K
FC71
0V1
7017 PDTC144EU
7018 74LVC245APW
G3
VCC
3EN1
GND
3EN2
SWITCH
2C01 100n
B5a,c
SSSS8 1404
1402 SSSS8
9C01
FC65
SWITCH FOR SOFTWARE DOWNLOAD
9C02
b5a,c(2x)
b5a(3x),c(2x)
b5c(2x)
ROM_OE
ROM_CS
RAM_OE
RAM_CS
WE
WP
VCCW
SW_OE
SW_CS
EP_OE
EP_CS
EP_WE
SW_WE
VPP-EPG
VPP-SW
3C06-1 10R
3C06-2 10R
3C06-3 10R
3C06-4 10R
3C07-1 10R
3C07-2 10R
3C07-3 10R
3C07-4 10R
10K 3C04
+3V3_INTOTC
3C05 470R
7019 74LVC245APW
2C02 100n
3V3
FC64
FC63
FC62
8204 000 8344.3
E_14620_094.eps
070704

SSB: Audio Demodulator


B6A
AUDIO DEMODULATOR
B6A
7A02
MSP4450
ADR interface
I2S interface
DEMODULATOR
IDENT
DSP
LOUDSPEAKER
HEADPHONE
SCART 1
SCART 2
SCART 3
SCART 4
SCART Switching Facilities
MONO
D/A
A/D
7A06
TDA7309
VOLUME+ LOUDNESS
SERIAL BUS DECODER + LATCHES
SOFT MUTE
INPUT SELECTOR
SUPPLY
MUTE
7A01
BC847BW
7A00-A
LM833D
7A00-B
LM833D
7A03-A
LM833D
7A03-B
LM833D
7A07-A
MC33178D
7A07-B
MC33178D
7A09
BC857B
7A04
BC857B
7A31-1
BC847BS
7A31-2
BC847BS
7A08-1
BC847BS
7A08-2
BC847BS
1A01
DSX840
18M432
REF-AUD
AUDIO-SW
AUDIO-R
AUDIO-L
HPN-R
HPN-L
SNDR-SC1-OUT-DC
SNDL-SC1-OUT-DC
SNDR-MON-OUT
SNDL-MON-OUT
SDA-F-AUD
SCL-F-AUD
SYS-RESET
POR
HEADPHONE-L
HEADPHONE-R
SNDL-SEC-IN
SNDR-SEC-IN
8204 000 8329.4
E_14620_095.eps
070704

1A00	G7
1A01	G7
2A00	A3
2A01	B2
2A02	B1
2A03	B2
2A04	B3
2A05	B1
2A06	B1
2A07	B2
2A08	B2
2A09	B3
2A10	B13
2A11	B10
2A14	B13
2A15	B12
2A16	B12
2A17	B7
2A18	B6
2A20	B11
2A21	B7
2A22	C10
2A23	C9
2A25	C11
2A26	C10
2A27	C7
2A29	C2
2A30	C11
2A31	D9
2A32	D1
2A33	D2
2A35	D7
2A36	C9
2A37	D2
2A39	D2
2A40	D9
2A41	D9
2A42	D8
2A43	D8
2A44	D8
2A46	D2
2A47	I8
2A49	E2
2A50	E8
2A51	I8
2A53	E2
2A54	E8
2A56	E2
2A59	F2
2A62	F2
2A64	G11
2A66	G9
2A69	G9
2A70	G9
2A72	G9
2A74	G9
2A75	H9
2A76	H12
2A79	H3
2A80	I9
2A81	I10
2A83	I10
2A88	I11
2A89	I10
2A90	I10
2A91	I3
2A92	I6
2A95	I11
2A99	I3
2AA5	I6
2AA6	G6
2AA7	G6
2AA9	H7
2AB0	H7
2AB2	G4
2AB3	H3
2AB4	H5
2AB5	D8
2AB6	G4
2AB7	G3
2AB8	B12
3A00	B8
3A01	B8
3A03	B6
3A04	H4
3A05	H8
3A06	I7
3A07	I8
3A09	B8
3A11	B12
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3A20	C10
3A21	B11
3A22	I3
3A23	D10
3A24	I8
3A26	D9
3A27	D10
3A28	D9
3A40	I6
3A45	H3
3A46	I3
3A47	H5
3A48	I4
3A49	I3
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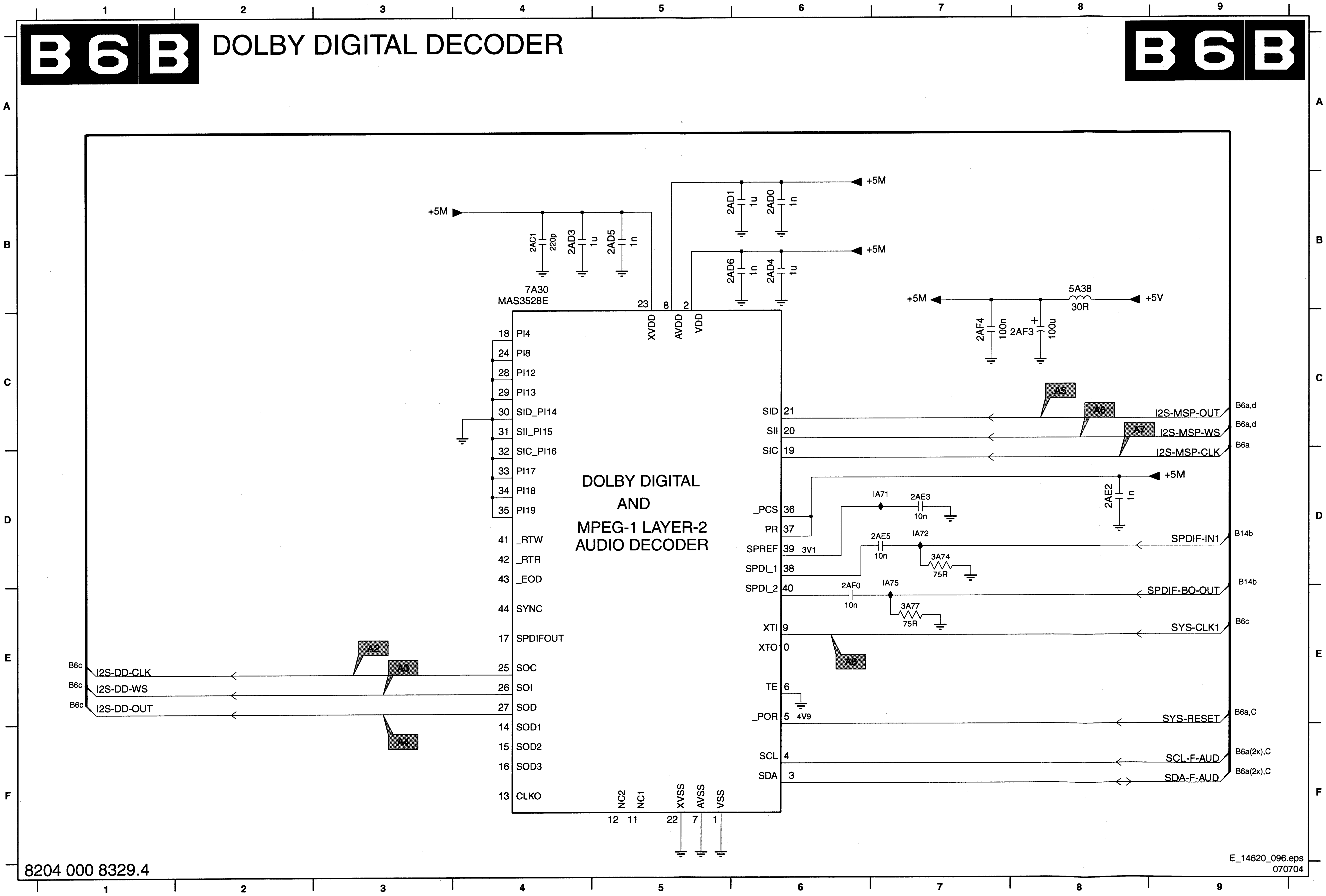
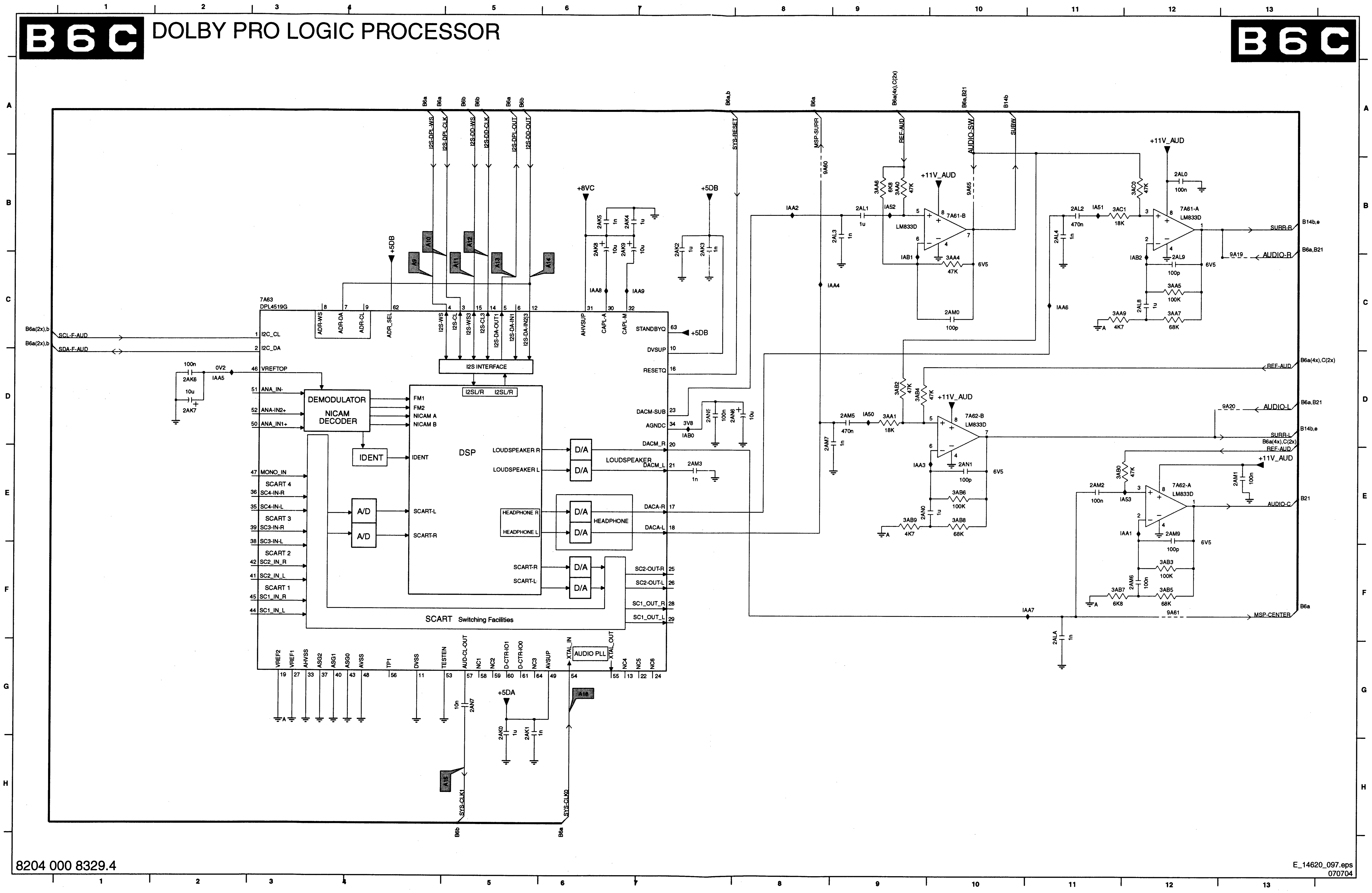
3A52	I3
3A53	I6
3A55	I4
3A60	I6
3A61	I7
3A62	I7
3A63	H7
3A64	I8
3A65	I8
3A66	C9
5A00	A1
5A01	B2
5A02	B1
5A03	B1
5A06	I11
5A19	D2
6A00	B7
6A01	I8
6A02	H8
7A00-A	C12
7A00-B	B13
7A01	B8
7A02	B3
7A03-A	C10
7A03-B	C11
7A04	I7
7A06	G10
7A07-A	H3
7A07-B	H6
7A08-1	I7
7A08-2	I7
7A09	I4
7A31-1	H8
7A31-2	H8
9A00	E11
9A01	E11
9A02	G12
9A03	G12
9A04	H1
9A05	H1
9A06	H1
9A07	G8
9A08	G8
9A10	G1
9A11	H1
9A12	H1
9A13	H1
9A14	I1
9A15	I1
9A16	I13
9A17	I13
9A18	B13
9A67	F2
9A71	G2
9A78	H7
9A79	H8
FA12	B12
FA13	B7
FA14	B8
FA17	B13
FA23	D9
FA24	D8
FA26	D2
FA27	E2
FA28	B3
IA00	H3
IA01	H6
IA02	H4
IA03	I7
IA04	B11
IA05	C10
IA06	C9
IA07	C7
IA08	D7
IA09	G6
IA10	A2
IA12	B2
IA13	E2
IA14	E2
IA15	F2
IA16	F2
IA17	F2
IA18	G2
IA21	I10
IA22	B8
IA23	D2
IA24	D2
IA25	C2
IA35	D7
IA36	E7
IA40	I8
IA41	I8
IA42	I7
IA43	I6
IA46	I8
IA47	I8
IA48	I4
IA49	I4
cA01	H6

SSB: Dolby Digital Decoder


B6B
DOLBY DIGITAL DECODER
B6B
1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
+5M
2AC1
220p
2AD3
1u
2AD5
1n
2AD1
1u
2AD0
1n
2AD6
1n
2AD4
1u
7A30
MAS3528E
23
8
2
XVDD
AVDD
VDD
18 PI4
24 PI8
28 PI12
29 PI13
30 SID_PI14
31 SII_PI15
32 SIC_PI16
33 PI17
34 PI18
35 PI19
41 _RTW
42 _RTR
43 _EOD
44 SYNC
17 SPDIFOUT
25 SOC
26 SOI
27 SOD
14 SOD1
15 SOD2
16 SOD3
13 CLKO
DOLBY DIGITAL
AND
MPEG-1 LAYER-2
AUDIO DECODER
SID 21
SII 20
SIC 19
_PCS 36
PR 37
SPREF 39 3V1
SPDI_1 38
SPDI_2 40
XTI 9
XTO 10
TE 6
_POR 5 4V9
SCL 4
SDA 3
NC2
NC1
XVSS
AVSS
VSS
12
11
22
7
1
+5M
2AF4
100n
2AF3
100u
5A38
30R
+5V
A5
A6
A7
I2S-MSP-OUT
I2S-MSP-WS
I2S-MSP-CLK
B6a,d
B6a,d
B6a
2AE2
1n
IA71
2AE3
10n
2AE5
10n
IA72
3A74
75R
2AF0
10n
IA75
3A77
75R
SPDIF-IN1
B14b
SPDIF-BO-OUT
B14b
SYS-CLK1
B6c
A8
SYS-RESET
B6a,C
SCL-F-AUD
B6a(2x),C
SDA-F-AUD
B6a(2x),C
A2
A3
A4
B6c
I2S-DD-CLK
B6c
I2S-DD-WS
B6c
I2S-DD-OUT
8204 000 8329.4
E_14620_096.eps
070704

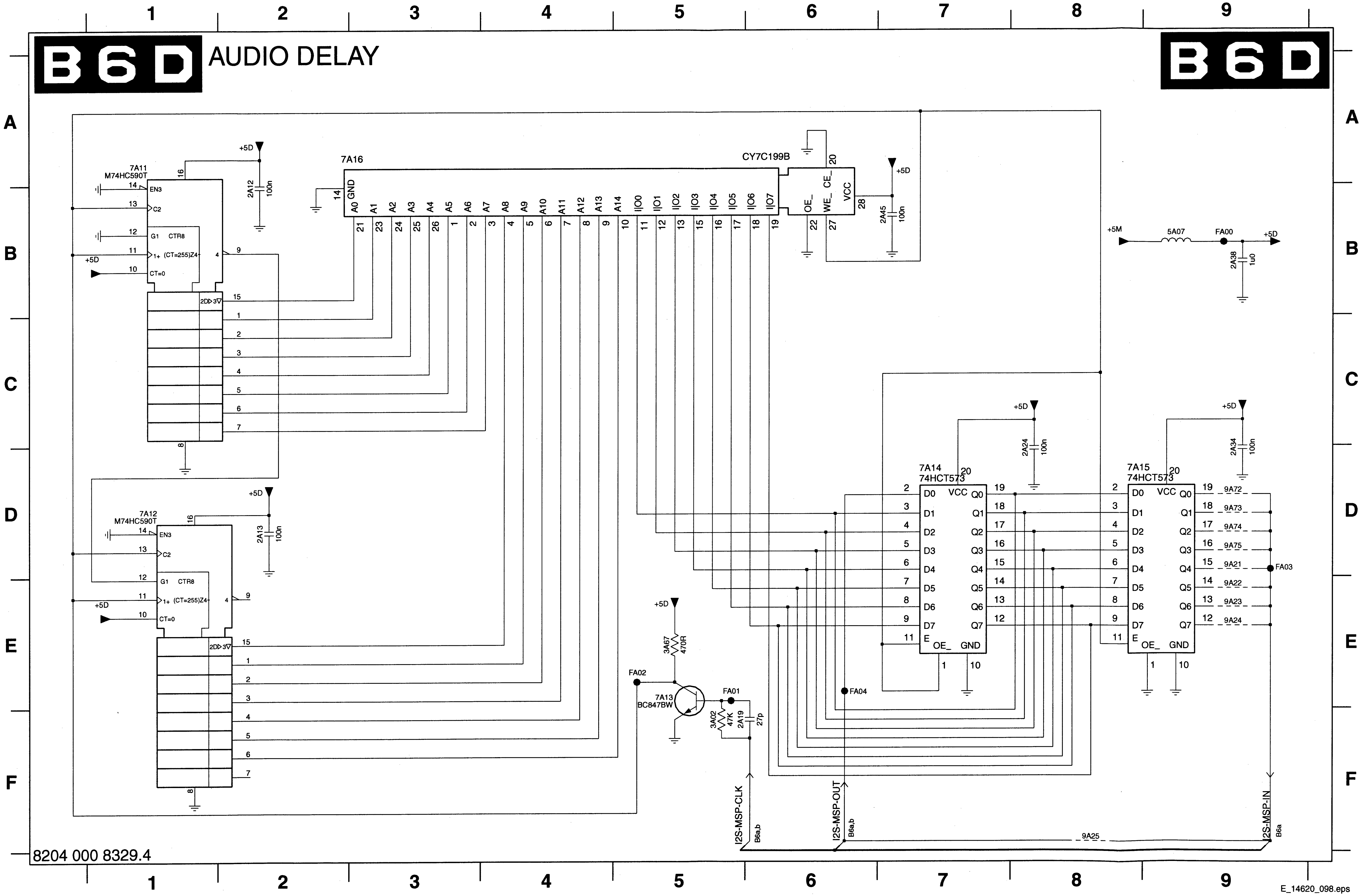
2AC1	B4
2AD0	B6
2AD1	B6
2AD3	B4
2AD4	B6
2AD5	B5
2AD6	B6
2AE2	D8
2AE3	D7
2AE5	D7
2AF0	E6
2AF3	C8
2AF4	C7
3A74	D7
3A77	E7
5A38	B8
7A30	B4
IA71	D7
IA72	D7
IA75	D7

SSB: Dolby Pro Logic Processor


B6C
DOLBY PRO LOGIC PROCESSOR
7A63
DPL4519G
DEMODULATOR
NICAM DECODER
IDENT
DSP
I2S INTERFACE
A/D
D/A
AUDIO PLL
SCART Switching Facilities
HEADPHONE
LOUDSPEAKER
I2S-DPL-WS
I2S-DPL-CLK
I2S-DD-WS
I2S-DD-CLK
I2S-DPL-OUT
I2S-DD-OUT
SYS-RESET
MSP-SURR
REF-AUD
AUDIO-SW
SURR
SCL-F-AUD
SDA-F-AUD
SURR-R
AUDIO-R
AUDIO-L
SURR-L
AUDIO-C
MSP-CENTER
SYS-CLK1
SYS-CLK0
+8VC
+5DB
+5DA
+11V_AUD
6V5
7A61-A LM833D
7A61-B LM833D
7A62-A LM833D
7A62-B LM833D
A9
A10
A11
A12
A13
A14
A15
A16
8204 000 8329.4
E_14620_097.eps
070704

2AK0	G5
2AK1	G5
2AK2	B7
2AK3	B7
2AK4	B6
2AK5	B6
2AK6	D2
2AK7	D2
2AK8	B6
2AK9	B6
2AL0	B12
2AL1	B9
2AL2	B11
2AL3	B9
2AL4	B11
2AL8	C12
2AL9	C12
2ALA	F11
2AM0	C10
2AM1	E13
2AM2	E11
2AM3	E7
2AM5	D9
2AM6	F12
2AM7	D8
2AM9	E12
2AN0	E9
2AN1	E10
2AN5	D7
2AN6	D8
2AN7	G5
3AA0	B9
3AA1	D9
3AA4	C10
3AA5	C12
3AA6	B9
3AA7	C12
3AA9	C11
3AB0	E11
3AB2	D9
3AB3	F12
3AB4	D9
3AB5	F12
3AB6	E10
3AB7	F11
3AB8	E10
3AB9	E9
3AC0	B12
3AC1	B11
7A61-A	B12
7A61-B	B10
7A62-A	E12
7A62-B	D10
7A63	C3
9A19	C13
9A20	D13
9A60	B8
9A61	F12
9A65	B10
IA50	D9
IA51	B11
IA52	B9
IA53	E12
IAA1	E12
IAA2	B8
IAA3	E9
IAA4	C9
IAA5	D2
IAA6	C11
IAA7	F11
IAA8	C6
IAA9	C7
IAB0	D7
IAB1	C9
IAB2	C12

SSB: Audio Delay

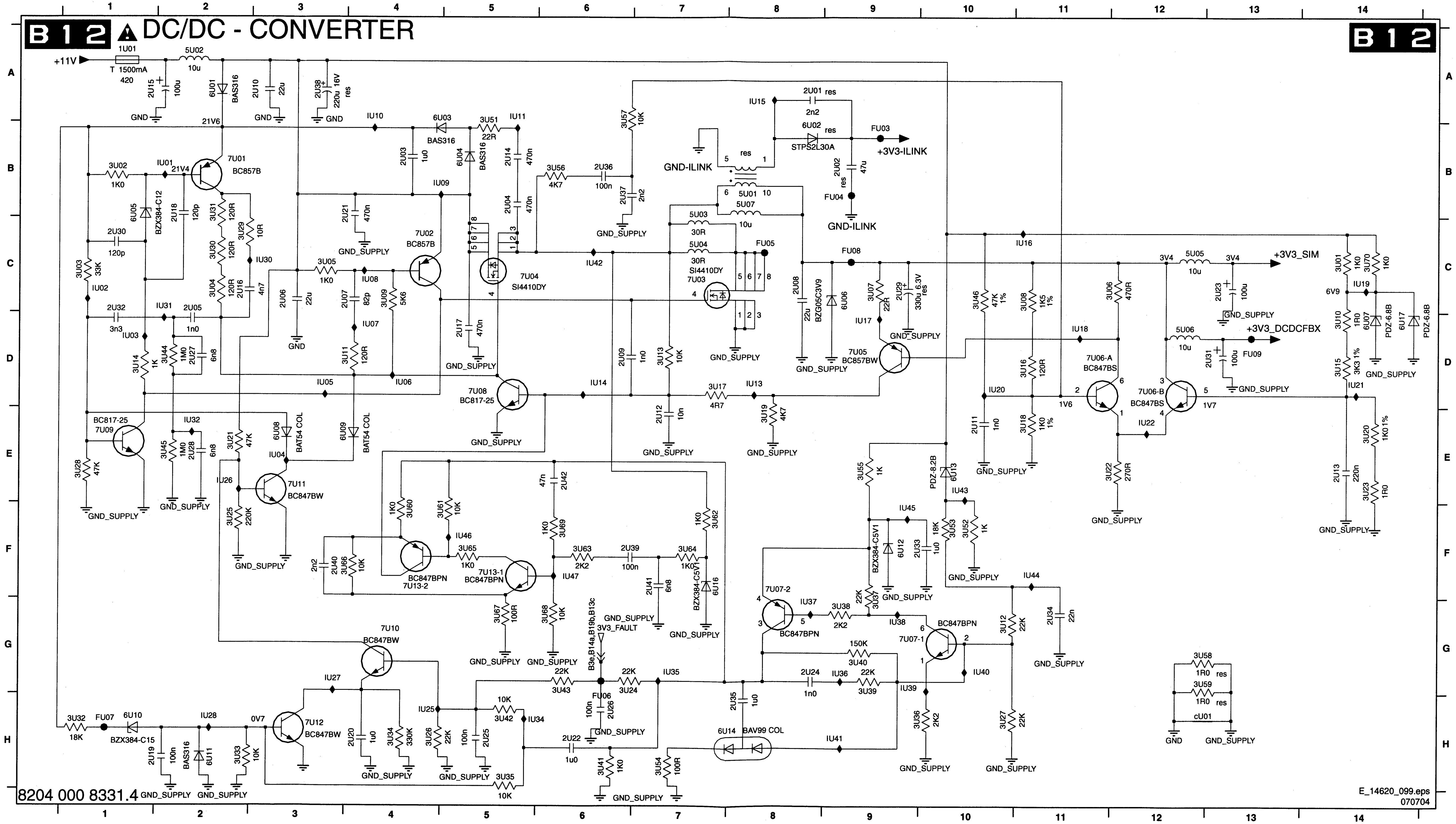

B6D
AUDIO DELAY
1 2 3 4 5 6 7 8 9
A B C D E F
7A11
M74HC590T
EN3
C2
G1 CTR8
1+ (CT=255)Z4
CT=0
2D▷3∇
7A12
M74HC590T
7A16
CY7C199B
GND
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14
IO0 IO1 IO2 IO3 IO4 IO5 IO6 IO7
OE_ WE_ CE_ VCC
+5D
+5M
2A12 100n
2A13 100n
2A45 100n
5A07
FA00
2A38 1u0
7A14
74HCT573
7A15
74HCT573
D0 D1 D2 D3 D4 D5 D6 D7 E
Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7
VCC OE_ GND
2A24 100n
2A34 100n
9A72 9A73 9A74 9A75 9A21 9A22 9A23 9A24
FA03
FA04
3A67 470R
FA02
7A13
BC847BW
FA01
3A02 47K
2A19 27p
I2S-MSP-CLK
B6a,b
I2S-MSP-OUT
B6a,b
I2S-MSP-IN
B6a
9A25
8204 000 8329.4

E_14620_098.eps
070704

2A12	B2
2A13	D2
2A19	F5
2A24	D8
2A34	D9
2A38	B9
2A45	B7
3A02	F5
3A67	E5
5A07	B9
7A11	A1
7A12	D1
7A13	E5
7A14	D7
7A15	D8
7A16	A3
9A21	D9
9A22	E9
9A23	E9
9A24	E9
9A25	F8
9A72	D9
9A73	D9
9A74	D9
9A75	D9
FA00	B9
FA01	E5
FA02	E5
FA03	D9
FA04	E6

SSB: DC/DC Converter

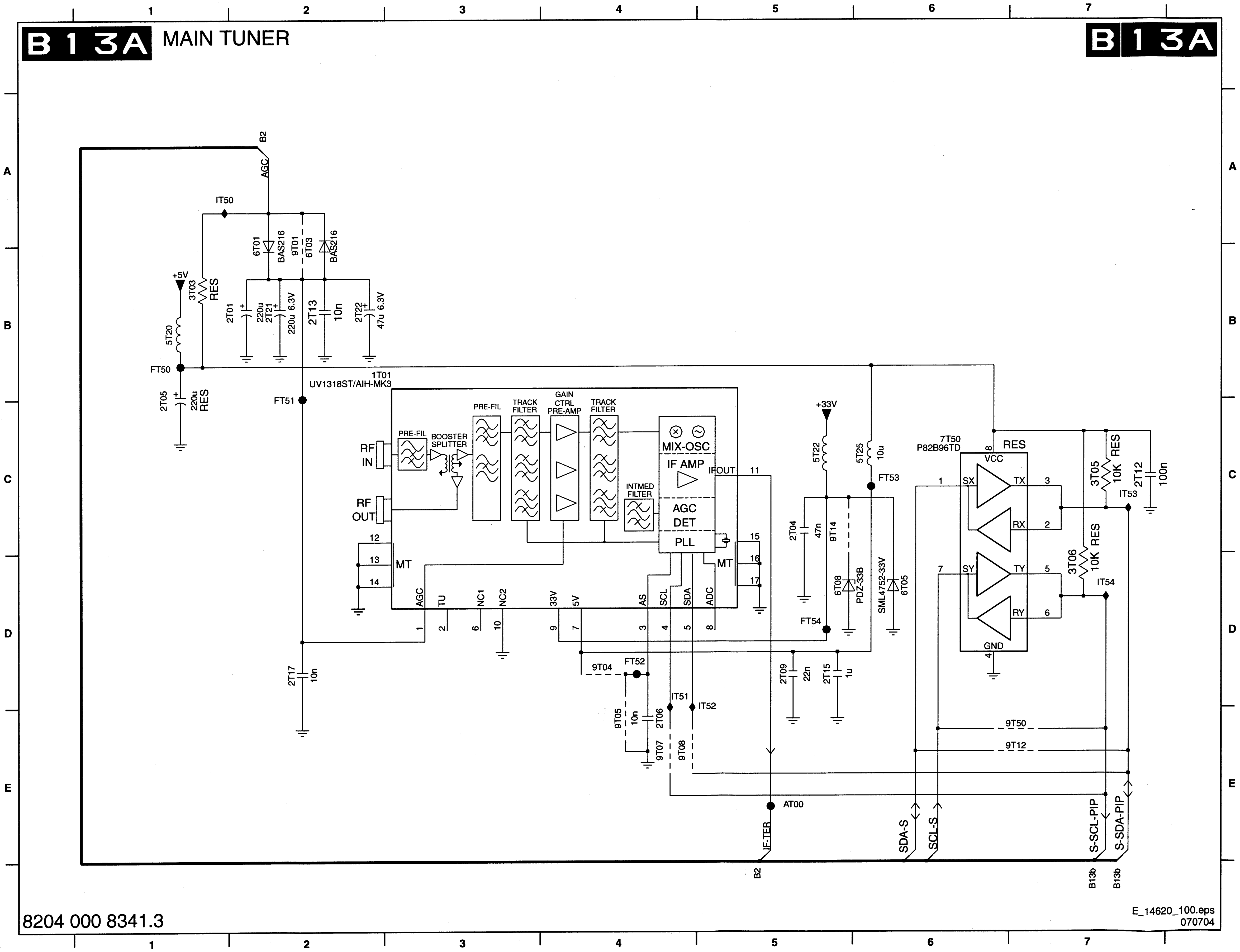
1U01	A1
2U01	A8
2U02	B9
2U03	B4
2U04	B5
2U05	C2
2U06	C3
2U07	C4
2U08	C8
2U09	D6
2U10	A3
2U11	E10
2U12	E7
2U13	E14
2U14	B5
2U15	A1
2U16	C2
2U17	D5
2U18	B2
2U19	H2
2U20	H4
2U21	B4
2U22	H6
2U23	C13
2U24	G8
2U25	H5
2U26	H6
2U27	D2
2U28	E2
2U29	C9
2U30	C1
2U31	D13
2U32	C1
2U33	F10
2U34	G11
2U35	H8
2U36	B6
2U37	B6
2U38	A3
2U39	F6
2U40	F3
2U41	F7
2U42	E6
3U01	C14
3U02	B1
3U03	C1
3U04	C2
3U05	C3
3U06	C12
3U07	C9
3U08	C11
3U09	C4
3U10	D14
3U11	D4
3U12	G10
3U13	D7
3U14	D1
3U15	D14
3U16	D11
3U17	D7
3U18	E11
3U19	E8
3U20	E14
3U21	E2
3U22	E12
3U23	E14
3U24	G6
3U25	F2
3U26	H4
3U27	H10
3U28	E1
3U29	C2
3U30	C2
3U31	B2
3U32	H1
3U33	H2
3U34	H4
3U35	H5
3U36	H10
3U37	G9
3U38	G9
3U39	G9
3U40	G9
3U41	H6
3U42	H5
3U43	G6
3U44	D2
3U45	E2
3U46	C10
3U51	B5
3U52	F10
3U53	F10
3U54	H7
3U55	E9
3U56	B6
3U57	A6
3U58	G12
3U59	G12
3U60	F4
3U61	F5
3U62	F7
3U63	F6
3U64	F7
3U65	F5
3U66	F4
3U67	G5
3U68	G6
3U69	F6
3U70	C14
5U01	B8
5U02	A2
5U03	B7
5U04	C7
5U05	C12
5U06	D12
5U07	B8
6U01	A2
6U02	A8
6U03	A4
6U04	B5
6U05	B1
6U06	C9
6U07	D14
6U08	E3
6U09	E3
6U10	H1
6U11	H2
6U12	F9
6U13	E10
6U14	H8
6U16	F7
6U17	D14
7U01	B2
7U02	C4
7U03	C7
7U04	C5
7U05	D9
7U06-A	D12
7U06-B	D12
7U07-1	G10
7U07-2	F8
7U08	D5
7U09	E1
7U10	G4
7U11	E3
7U12	H3
7U13-1	F5
7U13-2	F4
FU03	B9
FU04	B9
FU05	C8
FU06	H6
FU07	H1
FU08	C9
FU09	D13
IU01	B2
IU02	C1
IU03	D1
IU04	E3
IU05	D3
IU06	D4
IU07	D4
IU08	C4
IU09	B4
IU10	A4
IU11	A5
IU13	D8
IU14	D6
IU15	A8
IU16	C11
IU17	D9
IU18	D11
IU19	C14
IU20	D10
IU21	D14
IU22	E12
IU25	H4
IU26	E2
IU27	G3
IU28	H2
IU30	C3
IU31	C2
IU32	E2
IU34	H6
IU35	G7
IU36	G9
IU37	G8
IU38	G9
IU39	G9
IU40	G10
IU41	H9
IU42	C6
IU43	E10
IU44	F11
IU45	F9
IU46	F5
IU47	F6
cU01	H12



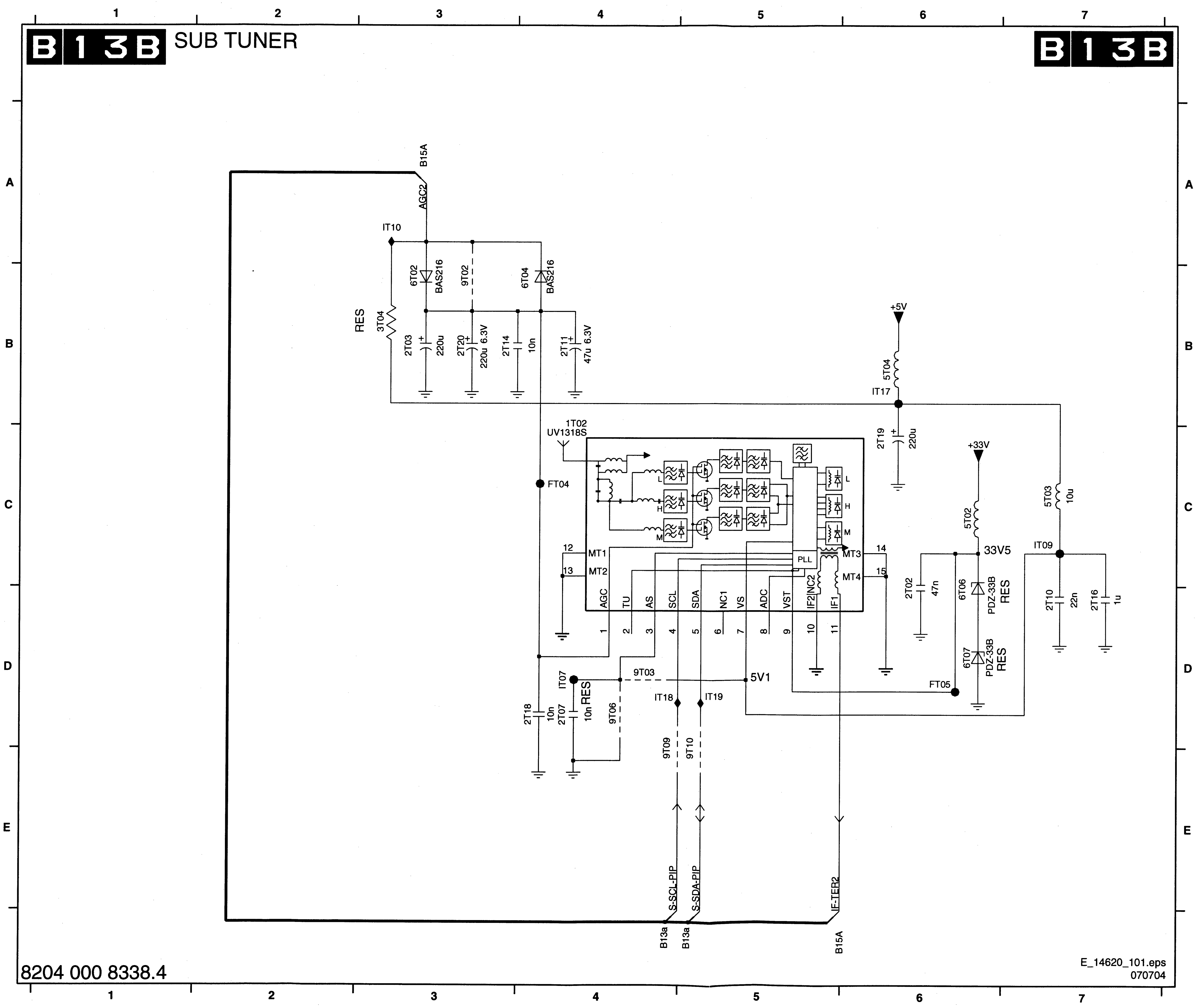
B 1 2
DC/DC - CONVERTER
+11V
1U01
T 1500mA
420
5U02
10u
2U15
100u
6U01
BAS316
2U10
22u
2U38
220u 16V
res
GND
21V6
IU10
6U03
BAS316
3U51
22R
IU11
2U03
1u0
6U04
BAS316
2U14
470n
2U04
470n
IU09
7U01
BC857B
3U02
1K0
IU01
21V4
6U05
BZX384-C12
2U18
120p
3U31
120R
3U29
10R
2U30
120p
3U03
33K
IU02
3U30
120R
IU30
3U04
120R
2U16
4n7
2U21
470n
GND_SUPPLY
7U02
BC857B
3U05
1K0
IU08
2U06
22u
2U07
82p
3U09
5K6
IU07
7U04
SI4410DY
2U32
3n3
IU31
2U05
1n0
IU03
3U44
1M0
2U27
6n8
3U14
1K
3U11
120R
2U17
470n
IU05
IU06
7U08
BC817-25
IU14
BC817-25
7U09
IU32
6U08
BAT54 COL
6U09
BAT54 COL
3U28
47K
3U45
1M0
2U28
6n8
3U21
47K
IU04
IU26
7U11
BC847BW
3U25
220K
3U56
4K7
2U36
100n
2U37
2n2
3U57
10K
IU42
GND-ILINK
res
5U01
5U07
10u
5U03
30R
5U04
30R
SI4410DY
7U03
FU05
2U01 res
2n2
IU15
6U02 res
STPS2L30A
FU03
+3V3-ILINK
2U02
res
47u
FU04
GND-ILINK
FU08
2U08
22u
BZG05C3V9
6U06
3U07
22R
2U29
330u 6.3V
res
IU17
7U05
BC857BW
2U09
1n0
3U13
10K
3U17
4R7
IU13
2U12
10n
3U19
4K7
IU16
3U46
47K 1%
3U08
1K5 1%
3U06
470R
3V4
5U05
10u
3V4
2U23
100u
+3V3_SIM
IU18
5U06
10u
+3V3_DCDCFBX
2U31
100u
FU09
7U06-A
BC847BS
7U06-B
BC847BS
1V6
1V7
IU20
2U11
1n0
3U16
120R
3U18
1K0 1%
IU22
3U22
270R
3U01
1K0
3U70
1K0
IU19
6V9
3U10
1R0
6U07
PDZ-6.8B
6U17
PDZ-6.8B
3U15
3K3 1%
IU21
3U20
1K0 1%
2U13
220n
3U23
1R0
3U55
1K
PDZ-8.2B
6U13
IU43
IU45
BZX384-C5V1
6U12
2U33
1u0
3U53
18K
3U52
1K
IU44
2U34
22n
3U12
22K
7U07-2
BC847BPN
IU37
3U38
2K2
3U37
22K
IU38
BC847BPN
7U07-1
150K
3U40
2U24
1n0
IU36
22K
3U39
IU39
IU40
3U36
2K2
3U27
22K
3U58
1R0 res
3U59
1R0 res
cU01
3U60
1K0
3U61
10K
IU46
3U65
1K0
2U42
47n
3U69
1K0
3U63
2K2
2U39
100n
3U64
1K0
3U62
1K0
2U40
2n2
3U66
10K
BC847BPN
7U13-2
7U13-1
BC847BPN
IU47
2U41
6n8
6U16
BZX384-C5V1
3U67
100R
3U68
10K
GND_SUPPLY
3V3_FAULT
B3e,B14a,B19b,B13c
7U10
BC847BW
IU27
22K
3U43
FU06
22K
3U24
IU35
2U35
1u0
6U14
BAV99 COL
IU41
10K
3U42
IU34
IU25
2U26
100n
2U22
1u0
3U41
1K0
3U54
100R
3U32
18K
FU07
6U10
BZX384-C15
IU28
0V7
7U12
BC847BW
2U19
100n
6U11
BAS316
3U33
10K
2U20
1u0
3U34
330K
3U26
22K
2U25
100n
3U35
10K
GND
8204 000 8331.4
E_14620_099.eps
070704

SSB: Main Tuner

1T01 B3
2T01 B2
2T04 C5
2T05 B1
2T06 E4
2T09 D5
2T12 C7
2T13 B2
2T15 D5
2T17 D2
2T21 B2
2T22 B2
3T03 B1
3T05 C7
3T06 D7
5T20 B1
5T22 C5
5T25 C6
6T01 A2
6T03 B2
6T05 D6
6T08 D5
7T50 C6
9T01 A2
9T04 D4
9T05 E4
9T07 E4
9T08 E4
9T12 E7
9T14 C5
9T50 E7
AT00 E5
FT50 B1
FT51 C2
FT52 D4
FT53 C6
FT54 D5
IT50 A1
IT51 D4
IT52 D5
IT53 C7
IT54 D7

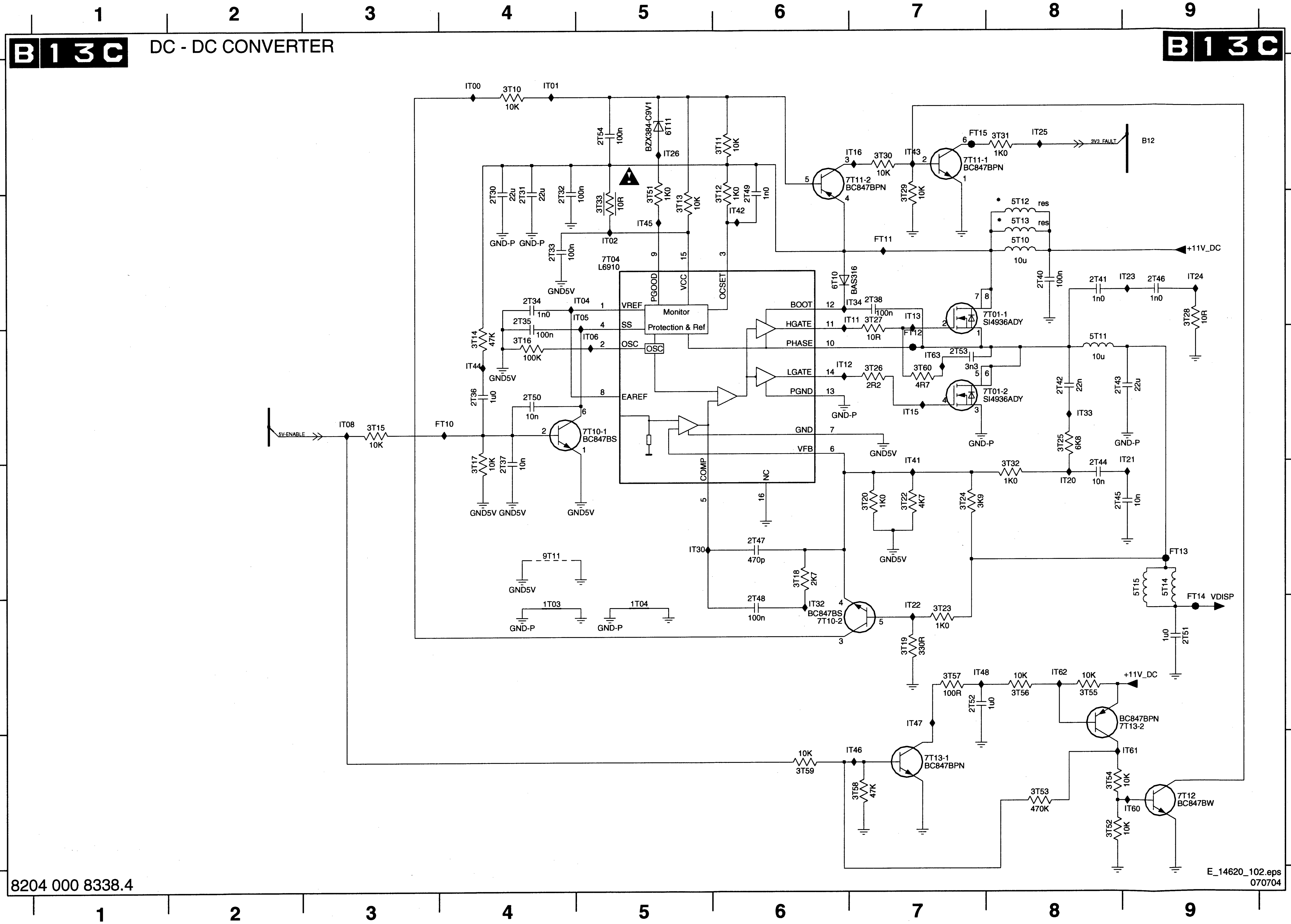

B13A
MAIN TUNER
B2
AGC
IT50
6T01
BAS216
9T01
6T03
BAS216
+5V
3T03
RES
2T01
220u
2T21
220u 6.3V
2T13
10n
2T22
47u 6.3V
5T20
FT50
2T05
220u
RES
FT51
1T01
UV1318ST/AIH-MK3
RF IN
RF OUT
PRE-FIL
BOOSTER SPLITTER
PRE-FIL
TRACK FILTER
GAIN CTRL PRE-AMP
TRACK FILTER
INTMED FILTER
MIX-OSC
IF AMP
IFOUT
AGC DET
PLL
MT
AGC
TU
NC1
NC2
33V
5V
AS
SCL
SDA
ADC
2T17
10n
9T04
FT52
9T05
10n
2T06
9T07
IT51
IT52
9T08
+33V
5T22
5T25
10u
FT53
2T04
47n
9T14
6T08
PDZ-33B
SML4752-33V
6T05
FT54
2T09
22n
2T15
1u
AT00
IF-TER
7T50
P82B96TD
RES
VCC
SX
TX
RX
SY
TY
RY
GND
3T05
10K
RES
2T12
100n
IT53
3T06
10K
RES
IT54
9T50
9T12
SDA-S
SCL-S
S-SCL-PIP
S-SDA-PIP
B13b
8204 000 8341.3
E_14620_100.eps
070704

SSB: Sub Tuner


B13B
SUB TUNER
B13B
1 2 3 4 5 6 7
A B C D E
B15A
AGC2
IT10
6T02
BAS216
9T02
6T04
BAS216
RES
3T04
2T03
220u
2T20
220u 6.3V
2T14
10n
2T11
47u 6.3V
+5V
5T04
IT17
2T19
220u
1T02
UV1318S
FT04
L
H
M
PLL
12
MT1
13
MT2
MT3
14
MT4
15
AGC
TU
AS
SCL
SDA
NC1
VS
ADC
VST
IF2
NC2
IF1
1 2 3 4 5 6 7 8 9 10 11
+33V
5T02
33V5
2T02
47n
6T06
PDZ-33B
RES
6T07
PDZ-33B
RES
FT05
5T03
10u
IT09
2T10
22n
2T16
1u
IT07
9T03
5V1
RES
2T18
10n
2T07
10n
9T06
IT18
IT19
9T09
9T10
S-SCL-PIP
S-SDA-PIP
IF-TER2
B13a
B13a
B15A
8204 000 8338.4
E_14620_101.eps
070704

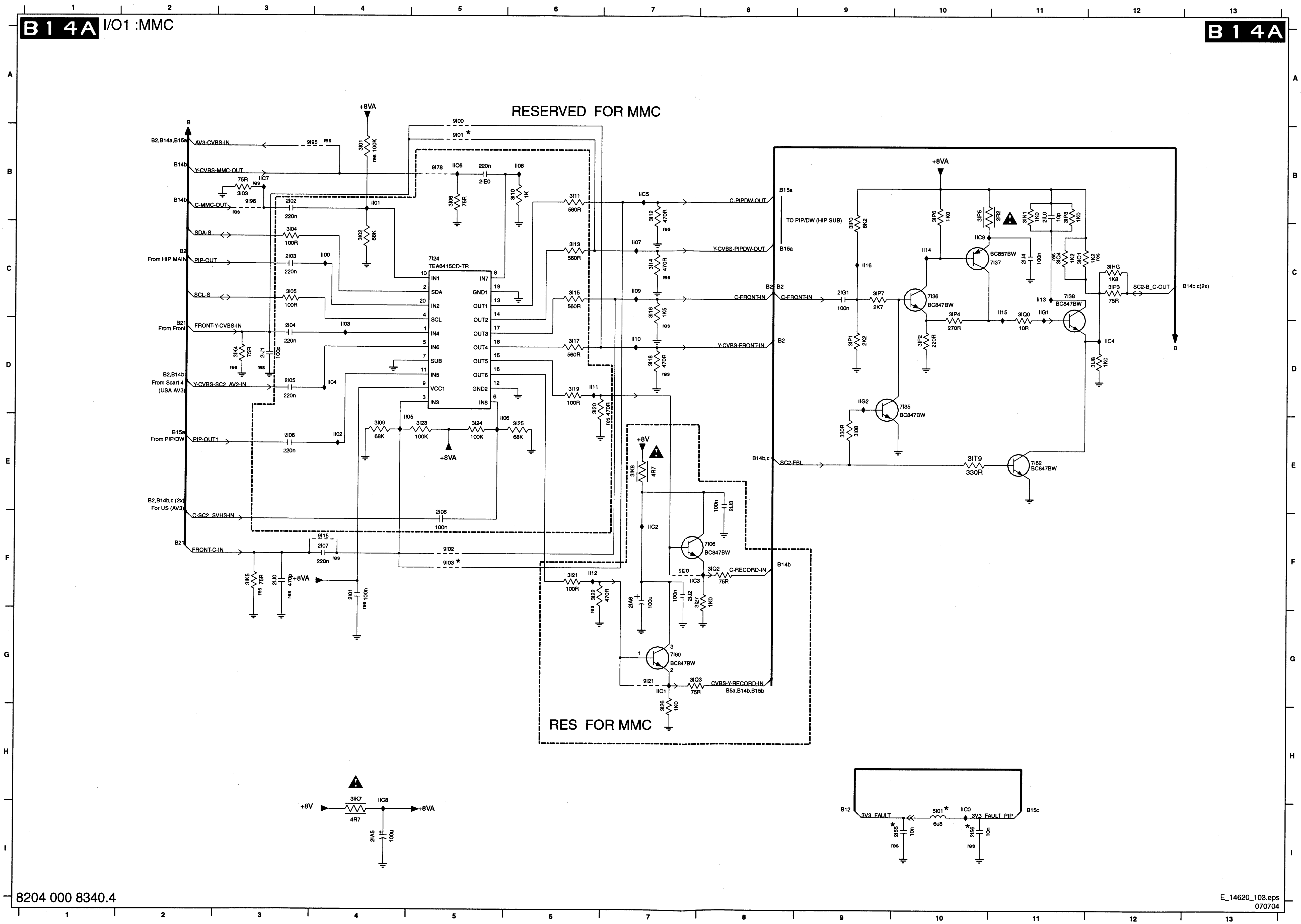
1T02	C4
2T02	D6
2T03	B3
2T07	D4
2T10	D7
2T11	B4
2T14	B3
2T16	D7
2T18	D4
2T19	C6
2T20	B3
3T04	B3
5T02	C6
5T03	C7
5T04	B6
6T02	B3
6T04	B4
6T06	D6
6T07	D6
9T02	B3
9T03	D4
9T06	D4
9T09	E4
9T10	E5
FT04	C4
FT05	D6
IT07	D4
IT09	C7
IT10	A3
IT17	B6
IT18	D4
IT19	D5

SSB: DC/DC Converter


B13C
DC - DC CONVERTER
1 2 3 4 5 6 7 8 9
A B C D E F
IT00
3T10 10K
IT01
2T54 100n
BZX384-C9V1 6T11
IT26
3T11 10K
2T30 22u
2T31 22u
2T32 100n
3T33 10R
3T51 1K0
3T13 10K
3T12 1K0
2T49 1n0
IT42
IT45
IT02
GND-P GND-P
2T33 100n
GND5V
7T04 L6910
PGOOD 9
VCC 15
OCSET 3
Monitor
Protection & Ref
OSC
VREF 1
SS 4
OSC 2
EAREF 8
BOOT 12
HGATE 11
PHASE 10
LGATE 14
PGND 13
GND 7
VFB 6
COMP 5
NC 16
2T34 1n0
IT04
2T35 100n
IT05
3T16 100K
IT06
3T14 47K
IT44
GND5V
2T36 1u0
2T50 10n
7T10-1 BC847BS
5V-ENABLE
IT08
3T15 10K
FT10
3T17 10K
2T37 10n
GND5V GND5V GND5V
IT16
3T30 10K
IT43
7T11-2 BC847BPN
7T11-1 BC847BPN
3T29 10K
FT15
3T31 1K0
IT25
3V3_FAULT
B12
5T12 res
5T13 res
5T10 10u
FT11
+11V_DC
6T10 BAS316
IT34
2T38 100n
IT11
3T27 10R
IT13
FT12
7T01-1 SI4936ADY
2T40 100n
2T41 1n0
IT23
2T46 1n0
IT24
3T28 10R
5T11 10u
IT63
2T53 3n3
3T60 4R7
IT12
3T26 2R2
IT15
7T01-2 SI4936ADY
GND-P
GND-P
2T42 22n
2T43 22u
IT33
3T25 6K8
GND-P
GND5V
IT41
3T32 1K0
IT20
2T44 10n
IT21
2T45 10n
3T20 1K0
3T22 4K7
3T24 3K9
GND5V
FT13
5T15
5T14
FT14 VDISP
2T51 1u0
IT30
2T47 470p
3T18 2K7
2T48 100n
IT32
BC847BS 7T10-2
IT22
3T23 1K0
3T19 330R
9T11
GND5V
1T03
GND-P
1T04
GND-P
3T57 100R
IT48
10K 3T56
IT62
10K 3T55
+11V_DC
2T52 1u0
BC847BPN 7T13-2
IT47
IT61
10K 3T59
IT46
7T13-1 BC847BPN
3T58 47K
3T53 470K
3T54 10K
IT60
3T52 10K
7T12 BC847BW
8204 000 8338.4
E_14620_102.eps
070704

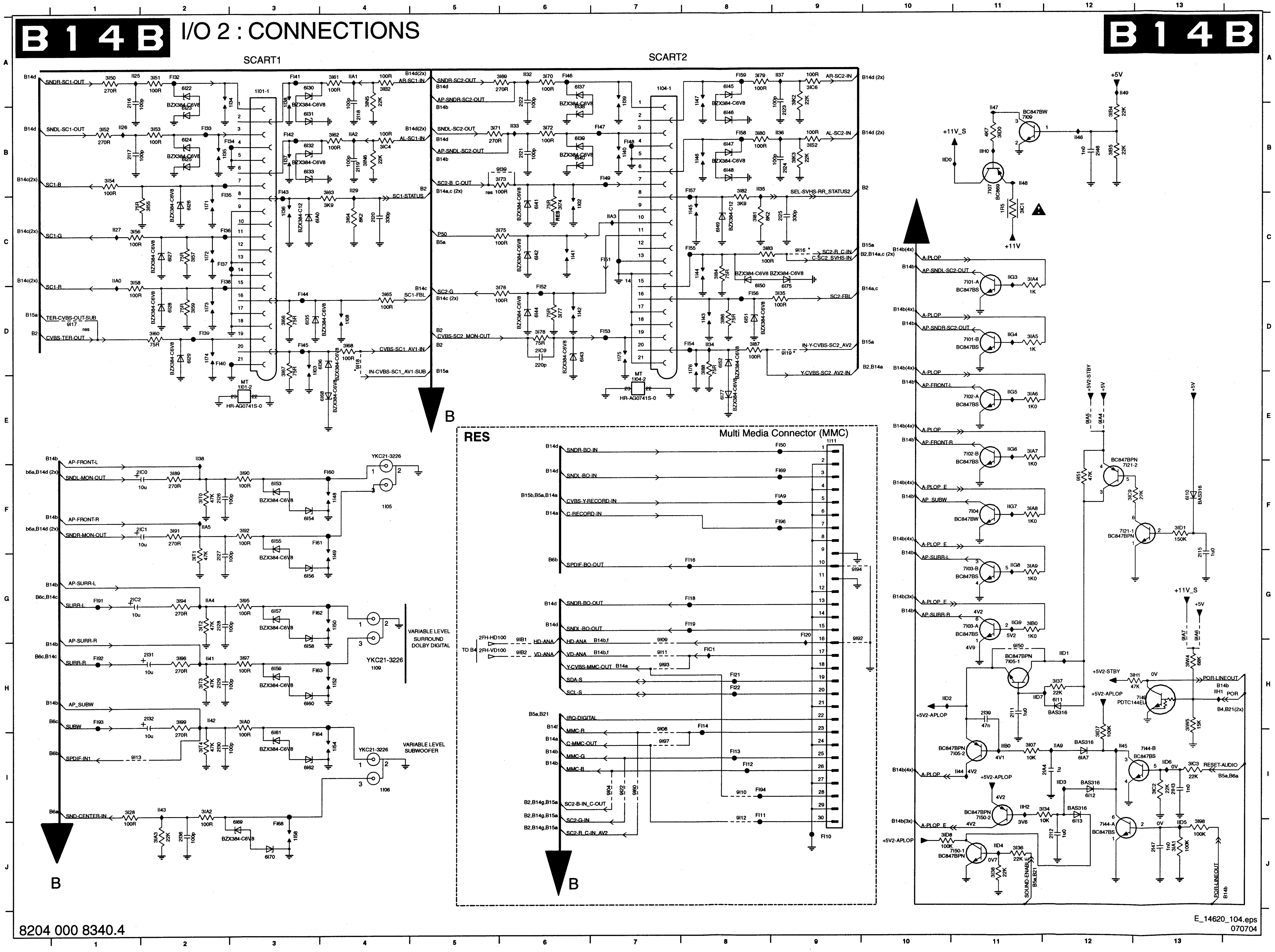
1T03	E4
1T04	E5
2T30	B4
2T31	B4
2T32	B4
2T33	B4
2T34	B4
2T35	B4
2T36	C4
2T37	D4
2T38	B7
2T40	B8
2T41	B8
2T42	C8
2T43	C8
2T44	D8
2T45	D8
2T46	B9
2T47	D6
2T48	E6
2T49	B6
2T50	C4
2T51	E9
2T52	E7
2T53	C7
2T54	A5
3T10	A4
3T11	A6
3T12	B6
3T13	B5
3T14	C4
3T15	C3
3T16	C4
3T17	D4
3T18	D6
3T19	E7
3T20	D7
3T22	D7
3T23	E7
3T24	D7
3T25	C8
3T26	C7
3T27	B7
3T28	B9
3T29	B7
3T30	A7
3T31	A8
3T32	D8
3T33	B5
3T51	B5
3T52	F8
3T53	F8
3T54	F8
3T55	E8
3T56	E8
3T57	E7
3T58	F7
3T59	F6
3T60	C7
5T10	B8
5T11	C8
5T12	B8
5T13	B8
5T14	D9
5T15	D9
6T10	B6
6T11	A5
7T01-1	B7
7T01-2	C7
7T04	B5
7T10-1	C5
7T10-2	E6
7T11-1	A7
7T11-2	A6
7T12	F9
7T13-1	F7
7T13-2	E8
9T11	D4
FT10	C4
FT11	B7
FT12	C7
FT13	D9
FT14	E9
FT15	A7
IT00	A4
IT01	A4
IT02	B5
IT04	B5
IT05	B5
IT06	C5
IT08	C3
IT11	B7
IT12	C6
IT13	B7
IT15	C7
IT16	A7
IT20	D8
IT21	C9
IT22	E7
IT23	B9
IT24	B9
IT25	A8
IT26	A5
IT30	D5
IT32	E6
IT33	C8
IT34	B7
IT41	C7
IT42	B6
IT43	A7
IT44	C4
IT45	B5
IT46	F7
IT47	E7
IT48	E7
IT60	F9
IT61	F9
IT62	E8
IT63	C7

SSB: I/O1: MMC


B14A
I/O1 :MMC
RESERVED FOR MMC
RES FOR MMC
7124
TEA6415CD-TR
IN1
SDA
IN2
SCL
IN4
IN6
SUB
IN5
VCC1
IN3
IN7
GND1
OUT1
OUT2
OUT3
OUT4
OUT5
OUT6
GND2
IN8
+8VA
+8V
B2,B14a,B15a
AV3-CVBS-IN
B14b
Y-CVBS-MMC-OUT
C-MMC-OUT
SDA-S
From HIP MAIN
PIP-OUT
SCL-S
From Front
FRONT-Y-CVBS-IN
From Scart 4 (USA AV3)
Y-CVBS-SC2_AV2-IN
From PIP/DW
PIP-OUT1
For US (AV3)
C-SC2_SVHS-IN
FRONT-C-IN
C-PIPDW-OUT
Y-CVBS-PIPDW-OUT
C-FRONT-IN
Y-CVBS-FRONT-IN
C-RECORD-IN
CVBS-Y-RECORD-IN
B5a,B14b,B15b
TO PIP/DW (HIP SUB)
SC2-B_C-OUT
B14b,c(2x)
SC2-FBL
7106 BC847BW
7160 BC847BW
7135 BC847BW
7136 BC847BW
7137 BC857BW
7138 BC847BW
7162 BC847BW
3V3_FAULT
3V3_FAULT_PIP
8204 000 8340.4
E_14620_103.eps
070704

2I01 F4	
2I02 B3	
2I03 C3	
2I04 D3	
2I05 D3	
2I06 E3	
2I07 F4	
2I08 F5	
2I55 I10	
2I56 I10	
2IA5 I4	
2IA6 F7	
2IE0 B5	
2IG1 C9	
2IJ0 F3	
2IJ1 D3	
2IJ2 F7	
2IJ3 E8	
2IJ4 C11	
2IL0 B11	
3I01 B4	
3I02 C4	
3I03 B3	
3I04 C3	
3I05 C3	
3I06 B5	
3I08 E9	
3I09 E4	
3I10 B6	
3I11 B6	
3I12 B7	
3I13 C6	
3I14 C7	
3I15 C6	
3I16 C7	
3I17 D6	
3I18 D7	
3I19 D6	
3I20 D6	
3I21 F6	
3I22 F6	
3I23 E5	
3I24 E5	
3I25 E6	
3I26 H7	
3I27 F8	
3IHG C12	
3IJ8 D12	
3IK4 D3	
3IK5 F3	
3IK7 I4	
3IK8 E7	
3IN1 B11	
3IP0 C9	
3IP1 D9	
3IP2 D10	
3IP3 C12	
3IP4 C10	
3IP5 B10	
3IP6 B10	
3IP7 C9	
3IP8 B11	
3IQ0 C11	
3IQ1 C11	
3IQ2 F8	
3IQ3 G7	
3IQ4 C11	
3IT9 E10	
5I01 I10	
7I06 F8	
7I24 C5	
7I35 D10	
7I36 C10	
7I37 C10	
7I38 C11	
7I60 G7	
7I62 E11	
9I00 A5	
9I01 B5	
9I02 F5	
9I03 F5	
9I15 F4	
9I20 F7	
9I21 G7	
9I78 B5	
9I95 B3	
9I96 B3	
	II00 C4
	II01 B4
	II02 E4
	II03 D4
	II04 D4
	II05 E4
	II06 E5
	II07 C7
	II08 B6
	II09 C7
	II10 D7
	II11 D6
	II12 F6
	II14 C10
	II15 C11
	II16 C9
	IIC0 I10
	IIC1 G7
	IIC2 F7
	IIC3 F7
	IIC4 D12
	IIC5 B7
	IIC6 B5
	IIC7 B3
	IIC8 H4
	IIC9 C10
	IIG1 C11
	IIG2 D9

SSB: I/O2: Connections



1I01-1	A3	3I70	A6	6I48	B8	FI49	B7
1I01-2	E3	3I71	B5	6I49	C8	FI50	E9
1I02	C6	3I72	B6	6I50	D8	FI51	C7
1I03	D3	3I73	B6	6I51	D8	FI52	D6
1I04-1	A7	3I74	C6	6I52	D8	FI53	D7
1I04-2	E7	3I75	C6	6I53	F3	FI54	D8
1I05	F4	3I76	D6	6I54	F3	FI55	C8
1I06	I4	3I77	D6	6I55	F3	FI56	D8
1I08	D4	3I78	D6	6I56	G3	FI57	B8
1I09	H4	3I79	A8	6I57	G3	FI58	B8
1I11	E9	3I80	B8	6I58	H3	FI59	A8
1I34	A2	3I81	C8	6I59	H3	FI60	F4
1I35	B2	3I82	B8	6I60	H3	FI61	F3
1I36	C3	3I83	C8	6I61	I3	FI62	G3
1I37	B3	3I84	C8	6I62	I3	FI63	H3
1I38	A3	3I86	D8	6I68	E4	FI64	I3
1I39	A7	3I87	D8	6I69	J3	FI68	J3
1I40	B7	3I88	D8	6I70	J3	FI69	F9
1I41	C6	3I89	F2	6I75	D9	FI91	G1
1I42	D6	3I90	F3	6I77	E8	FI92	H1
1I43	D8	3I91	F2	6IA0	C3	FI93	H1
1I44	C8	3I92	F3	6IA7	I12	FI94	I8
1I45	C8	3I94	G2	7I01-A	D11	FI96	F9
1I46	B8	3I95	G3	7I01-B	D11	FIA9	F9
1I47	A8	3I96	H2	7I02-A	E11	FIC1	H8
1I48	F4	3I97	H3	7I02-B	E11	II25	A1
1I49	G4	3I98	J13	7I03-A	G11	II26	B1
1I50	G4	3I99	H2	7I03-B	G11	II27	C1
1I52	H4	3IA0	H3	7I04	F11	II29	B4
1I54	I4	3IA1	J13	7I05-1	H11	II32	A6
1I58	J3	3IA2	I2	7I05-2	I11	II33	B6
1I71	C2	3IA3	J2	7I07	B11	II34	D8
1I72	C2	3IA4	C11	7I09	B11	II35	B8
1I73	D2	3IA5	D11	7I21-1	F13	II36	B9
1I74	D2	3IA6	E11	7I21-2	F13	II37	A9
1I75	D7	3IA7	E11	7I44-A	J12	II38	E2
1I76	D8	3IA8	F11	7I44-B	I13	II41	H2
2I11	H11	3IA9	G11	7I49	H13	II42	H2
2I12	J12	3IB0	G11	7I50-1	J11	II43	I2
2I15	G13	3IB2	A4	7I50-2	I11	II44	I11
2I16	A1	3IB4	B12	9I04	I7	II45	I12
2I17	B1	3IB5	B12	9I08	I7	II46	B12
2I18	B4	3IC1	C11	9I09	H7	II47	B11
2I19	B4	3IC2	I13	9I10	I8	II48	B11
2I20	C4	3IC3	I13	9I11	H7	II49	A12
2I21	B6	3IC4	B4	9I12	J8	IIA0	C1
2I22	A6	3IC6	A9	9I13	I1	IIA1	A4
2I23	B9	3IC9	F12	9I16	C9	IIA2	B4
2I24	B9	3ID0	B11	9I17	D1	IIA3	C7
2I25	C9	3ID1	F13	9I18	D4	IIA4	G2
2I26	F2	3ID7	I12	9I19	D9	IIA5	F2
2I27	G2	3ID8	J10	9I22	I7	IIA9	I12
2I28	G2	3IH1	H13	9I39	B6	IIB0	I11
2I29	H2	3IK2	A9	9I50	H11	IID0	B10
2I30	I2	3IK3	B9	9I51	F12	IID1	H12
2I31	H2	3IN5	A4	9I60	I7	IID2	H10
2I32	H2	3IN6	B4	9I92	H9	IID3	I12
2I36	J2	3IS2	B9	9I93	H7	IID4	J11
2I39	H11	3IT0	F2	9I94	G9	IID5	J13
2I46	B12	3IT1	G2	9I97	I7	IID6	I13
2I47	J13	3IT2	G2	9IA4	E12	IID7	H11
2IA4	I12	3IT3	H2	9IA5	E12	IIG3	C11
2IC0	F2	3IT4	I2	9IA6	G13	IIG4	D11
2IC1	F2	3IW4	H13	9IA7	G13	IIG5	E11
2IC2	G1	3IW5	H13	9IB1	H6	IIG6	E11
2IC9	D6	6I10	F13	9IB2	H6	IIG7	F11
2IH3	I13	6I11	H12	FI10	J9	IIG8	G11
3I07	I11	6I12	I12	FI11	I8	IIG9	G11
3I28	I1	6I13	J12	FI12	I8	IIH0	B11
3I34	I12	6I22	A2	FI13	I8	IIH1	H13
3I35	D9	6I23	A2	FI14	H8	IIH2	I11
3I36	J11	6I24	B2	FI16	G8		
3I37	H12	6I25	B2	FI18	G8		
3I38	J11	6I26	C2	FI19	G8		
3I50	A1	6I27	C2	FI20	G9		
3I51	A2	6I28	D2	FI21	H8		
3I52	B1	6I29	D2	FI22	H8		
3I53	B2	6I30	A3	FI32	A2		
3I54	B1	6I31	B3	FI33	B2		
3I55	C2	6I32	B3	FI34	B2		
3I56	C1	6I33	B3	FI35	C2		
3I57	C2	6I35	D3	FI36	C2		
3I58	C1	6I36	D4	FI37	C2		
3I59	D2	6I37	A6	FI38	C2		
3I60	D2	6I38	A6	FI39	D2		
3I61	A4	6I39	B6	FI40	D2		
3I62	B4	6I40	B6	FI41	A3		
3I63	B4	6I41	C6	FI42	B3		
3I64	C4	6I42	C6	FI43	B3		
3I65	D4	6I43	D6	FI44	D3		
3I66	D3	6I44	D6	FI45	D3		
3I67	D3	6I45	A8	FI46	A6		
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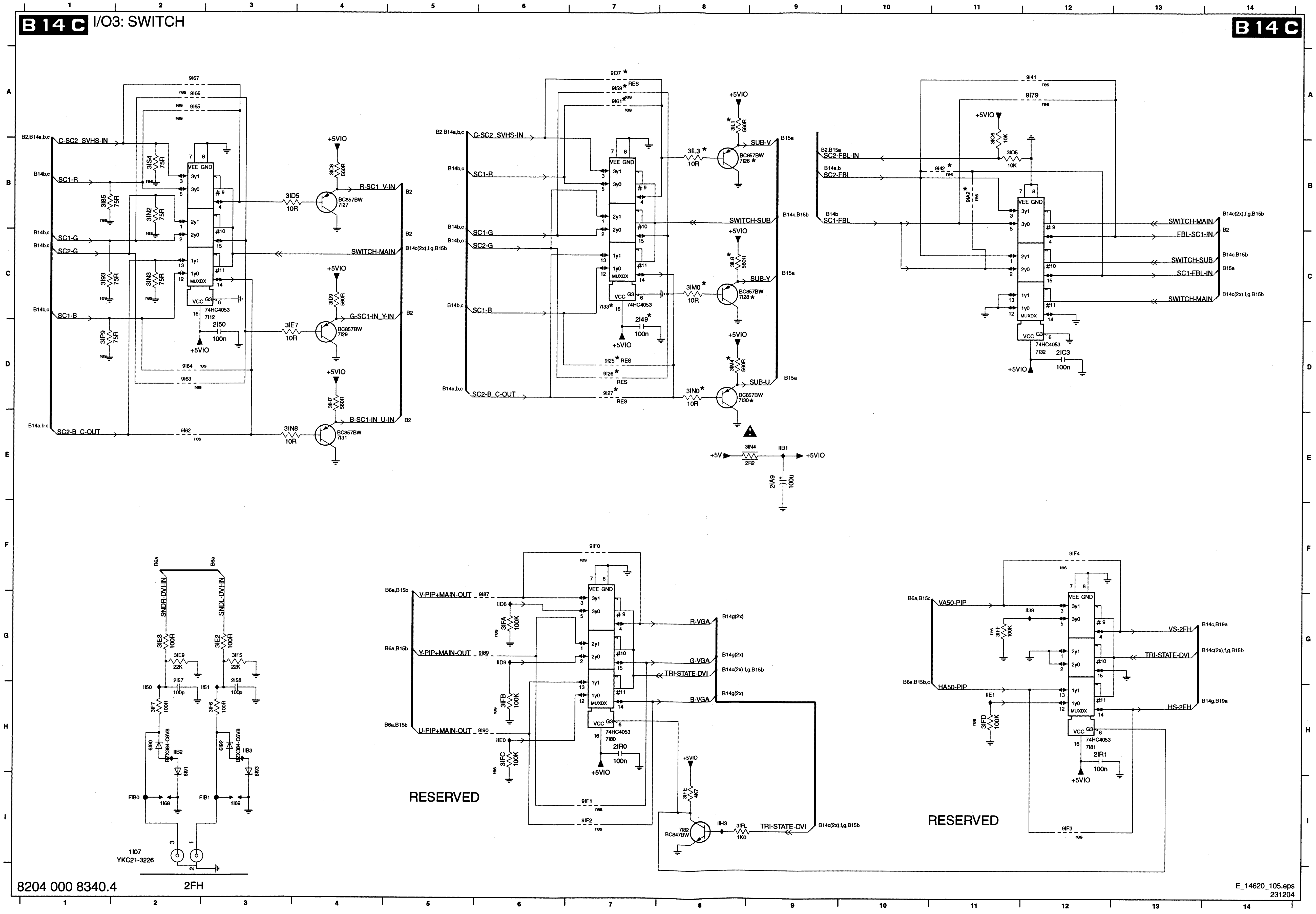
3I69	A6	6I47	B8	FI48	B7		

SSB: IO3: Switch


B 14 C
I/O3: SWITCH
C-SC2_SVHS-IN
SC1-R
SC1-G
SC2-G
SC1-B
SC2-B_C-OUT
R-SC1_V-IN
SWITCH-MAIN
G-SC1-IN_Y-IN
B-SC1-IN_U-IN
SUB-V
SWITCH-SUB
SUB-Y
SUB-U
SC2-FBL-IN
SC2-FBL
SC1-FBL
FBL-SC1-IN
SC1-FBL-IN
+5VIO
+5V
74HC4053
BC857BW
BC847BW
SNDR-DVI-IN
SNDL-DVI-IN
1I07
YKC21-3226
2FH
V-PIP+MAIN-OUT
Y-PIP+MAIN-OUT
U-PIP+MAIN-OUT
R-VGA
G-VGA
B-VGA
TRI-STATE-DVI
VA50-PIP
HA50-PIP
VS-2FH
HS-2FH
RESERVED
RESERVED
8204 000 8340.4
E_14620_105.eps
231204

1I07	I2
1I68	I2
1I69	I3
2I49	D7
2I50	D3
2I57	H2
2I58	H3
2IA9	E9
2IC3	D12
2IR0	H7
2IR1	H12
3I85	B1
3I93	C1
3IC8	B4
3ID5	B3
3ID9	C4
3IE2	G3
3IE3	G2
3IE7	D3
3IE9	G2
3IF5	G3
3IF6	H3
3IF7	H2
3IFA	G6
3IFB	H6
3IFC	H6
3IFD	H11
3IFE	I8
3IFF	G11
3IFL	I8
3IH7	D4
3IL1	A8
3IL3	B8
3IL8	C8
3IM0	C8
3IM4	D8
3IN0	D8
3IN2	B2
3IN3	C2
3IN4	E9
3IN8	E3
3IO5	B11
3IO6	A11
3IP9	D1
3IS4	B2
6I90	H2
6I91	H2
6I92	H3
6I93	H3
7I12	C3
7I26	B8
7I27	B4
7I28	C8
7I29	D4
7I30	D8
7I31	E4
7I32	D12
7I33	C7
7I80	H7
7I81	H12
7I82	I8
9I25	D7
9I26	D7
9I27	D7
9I37	A7
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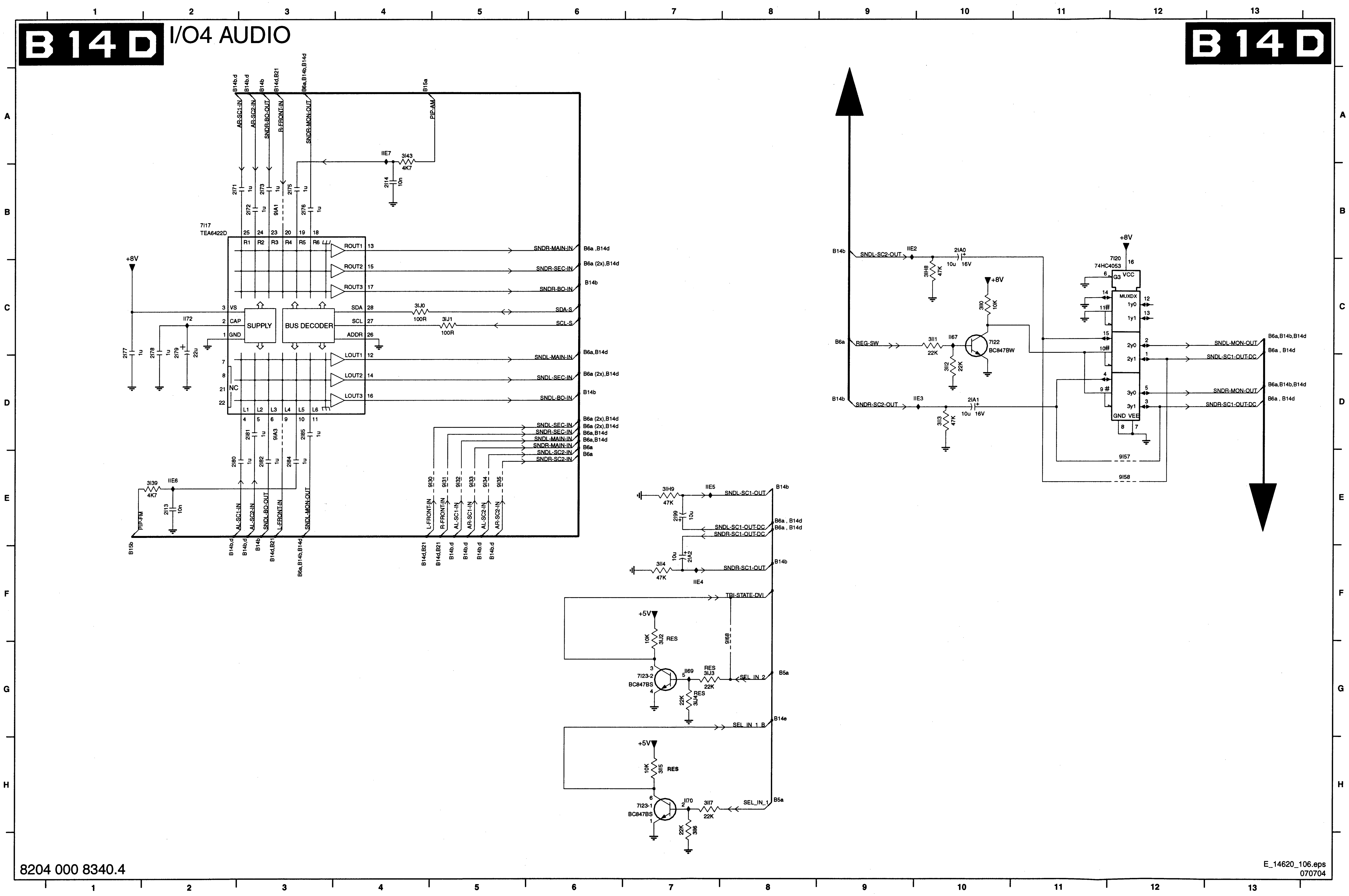
9I66	A2
9I67	A2
9I79	A12
9I87	G6
9I89	G6
9I90	H6
9IA2	B11
9IF0	F7
9IF1	I7
9IF2	I7
9IF3	I12
9IF4	F12
FIB0	I2
FIB1	I3
II39	G12
II50	H2
II51	H3
IIB1	E9
IIB2	H2
IIB3	H3
IID8	G6
IID9	G6
IIE0	H6
IIE1	H11
IIH3	I8

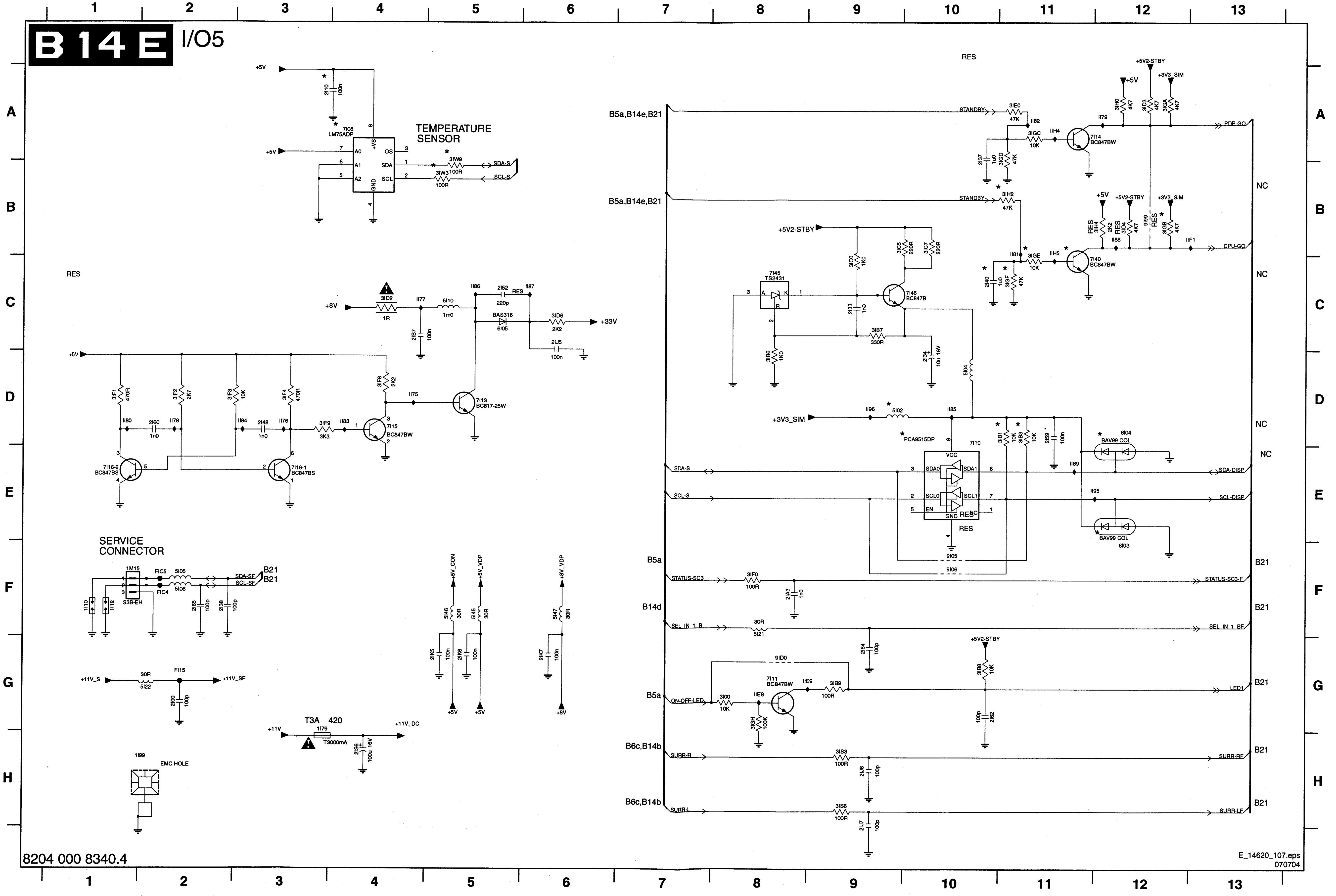
SSB: I/O1: Audio


B14D
I/O4 AUDIO
B14D
7I17
TEA6422D
SUPPLY
BUS DECODER
VS
CAP
GND
ROUT1
ROUT2
ROUT3
SDA
SCL
ADDR
LOUT1
LOUT2
LOUT3
NC
AR-SC1-IN
AR-SC2-IN
SNDR-BO-OUT
R-FRONT-IN
SNDR-MON-OUT
PIP-AM
PIP-FM
AL-SC1-IN
AL-SC2-IN
SNDL-BO-OUT
L-FRONT-IN
SNDL-MON-OUT
SNDR-MAIN-IN
SNDR-SEC-IN
SNDR-BO-IN
SDA-S
SCL-S
SNDL-MAIN-IN
SNDL-SEC-IN
SNDL-BO-IN
SNDL-SC2-IN
SNDR-SC1-IN
SNDR-SC2-IN
+8V
3IJ0 100R
3IJ1 100R
3I43 4K7
3I39 4K7
2I13 10n
2I14 10n
7I20
74HC4053
MUXDX
VCC
GND VEE
SNDL-SC2-OUT
SNDR-SC2-OUT
REG-SW
7I22
BC847BW
SNDL-MON-OUT
SNDL-SC1-OUT-DC
SNDR-MON-OUT
SNDR-SC1-OUT-DC
SNDL-SC1-OUT
SNDR-SC1-OUT
TBI-STATE-DVI
SEL_IN_2
SEL_IN_1_B
SEL_IN_1
+5V
7I23-2
BC847BS
7I23-1
BC847BS
RES
8204 000 8340.4
E_14620_106.eps
070704

2I13	E2
2I14	B4
2I71	B2
2I72	B3
2I73	B3
2I75	B3
2I76	B3
2I77	C1
2I78	C2
2I79	C2
2I80	E2
2I81	D3
2I82	E3
2I84	E3
2I85	D3
2I99	E7
2IA0	B10
2IA1	D10
2IA2	F7
3I39	E2
3I43	A4
3IH8	C10
3IH9	E7
3II0	C10
3II1	C10
3II2	D10
3II3	D10
3II4	F7
3II5	H7
3II6	H7
3II7	H7
3IJ0	C4
3IJ1	C5
3IJ2	F7
3IJ3	G7
3IJ4	G7
7I17	B2
7I20	C12
7I22	C10
7I23-1	H7
7I23-2	G7
9I30	E5
9I31	E5
9I32	E5
9I33	E5
9I34	E5
9I35	E5
9I57	E12
9I58	E12
9I68	F8
9IA1	B3
9IA3	D3
II67	C10
II69	G7
II70	H7
II72	C2
IIE2	B9
IIE3	D10
IIE4	F7
IIE5	E7
IIE6	E2
IIE7	A4

SSB: I/O5

1I10 F1
1I12 F1
1I79 H3
1I99 H1
1M15 F1
2I00 G2
2I10 A3
2I33 C9
2I34 D10
2I37 A10
2I38 F2
2I40 C10
2I48 D3
2I52 C5
2I59 D11
2I60 D2
2I62 G10
2I64 G9
2I65 F2
2IA3 F8
2IB7 C4
2IJ5 C6
2IJ6 H9
2IJ7 H9
2IK5 G5
2IK6 G5
2IK7 G6
2IS6 H4
3I00 G8
3IB1 D11
3IB3 D11
3IB6 D8
3IB7 C9
3IB8 G10
3IB9 G9
3IC0 C9
3IC5 B9
3IC7 B10
3ID2 C4
3ID3 A12
3ID4 B12
3ID6 C6
3IE0 A11
3IF0 F8
3IF1 D1
3IF2 D2
3IF3 D2
3IF4 D3
3IF8 D4
3IF9 D3
3IGA A12
3IGB B12
3IGC A11
3IGD A11
3IGE C11
3IGF C11
3IGH G8
3IH0 A12
3IH2 B11
3IH4 B12
3IS3 H9
3IS6 H9
3IW3 B5
3IW9 B5
5I02 D9
5I04 D10
5I05 F2
5I06 F2
5I10 C5
5I21 F8
5I22 G2
5I45 F5
5I46 F5
5I47 F6
6I03 F12
6I04 D12
6I05 C5
7I08 A4
7I10 D10
7I11 G8
7I13 D5
7I14 A11
7I15 D4
7I16-1 E3
7I16-2 E1
7I40 C11
7I45 C8
7I46 C10
9I05 F10
9I06 F10
9I99 B12
9ID0 G8
FI15 G2
FIC4 F2
FIC5 F2
II75 D4
II76 D3
II77 C4
II78 D2
II79 A12
II80 D1
II81 B11
II82 A11
II83 D4
II84 D3
II85 D10
II86 C5
II87 C6
II88 B12
II89 E11
II95 E12
II96 D9
IIE8 G8
IIE9 G9
IIF1 B13
IIH4 A11
IIH5 B11


B14E
I/O5
TEMPERATURE SENSOR
7I08 LM75ADP
SDA-S
SCL-S
RES
+8V
+33V
+5V
7I13 BC817-25W
7I15 BC847BW
7I16-2 BC847BS
7I16-1 BC847BS
SERVICE CONNECTOR
1M15
S3B-EH
SDA-SF
SCL-SF
B21
+11V_S
+11V_SF
+11V
+11V_DC
T3A 420
1I79
T3000mA
1I99
EMC HOLE
+5V_CON
+5V_VDP
+8V_VDP
B5a,B14e,B21
STANDBY
+5V2-STBY
+3V3_SIM
7I14 BC847BW
7I40 BC847BW
PDP-GO
CPU-GO
NC
7I45 TS2431
7I46 BC847B
7I10 PCA9515DP
SDA-DISP
SCL-DISP
BAV99 COL
B5a
STATUS-SC3
STATUS-SC3-F
B14d
SEL_IN_1_B
SEL_IN_1_BF
ON-OFF-LED
7I11 BC847BW
LED1
B6c,B14b
SURR-R
SURR-RF
SURR-L
SURR-LF
A
B
C
D
E
F
G
H
1
2
3
4
5
6
7
8
9
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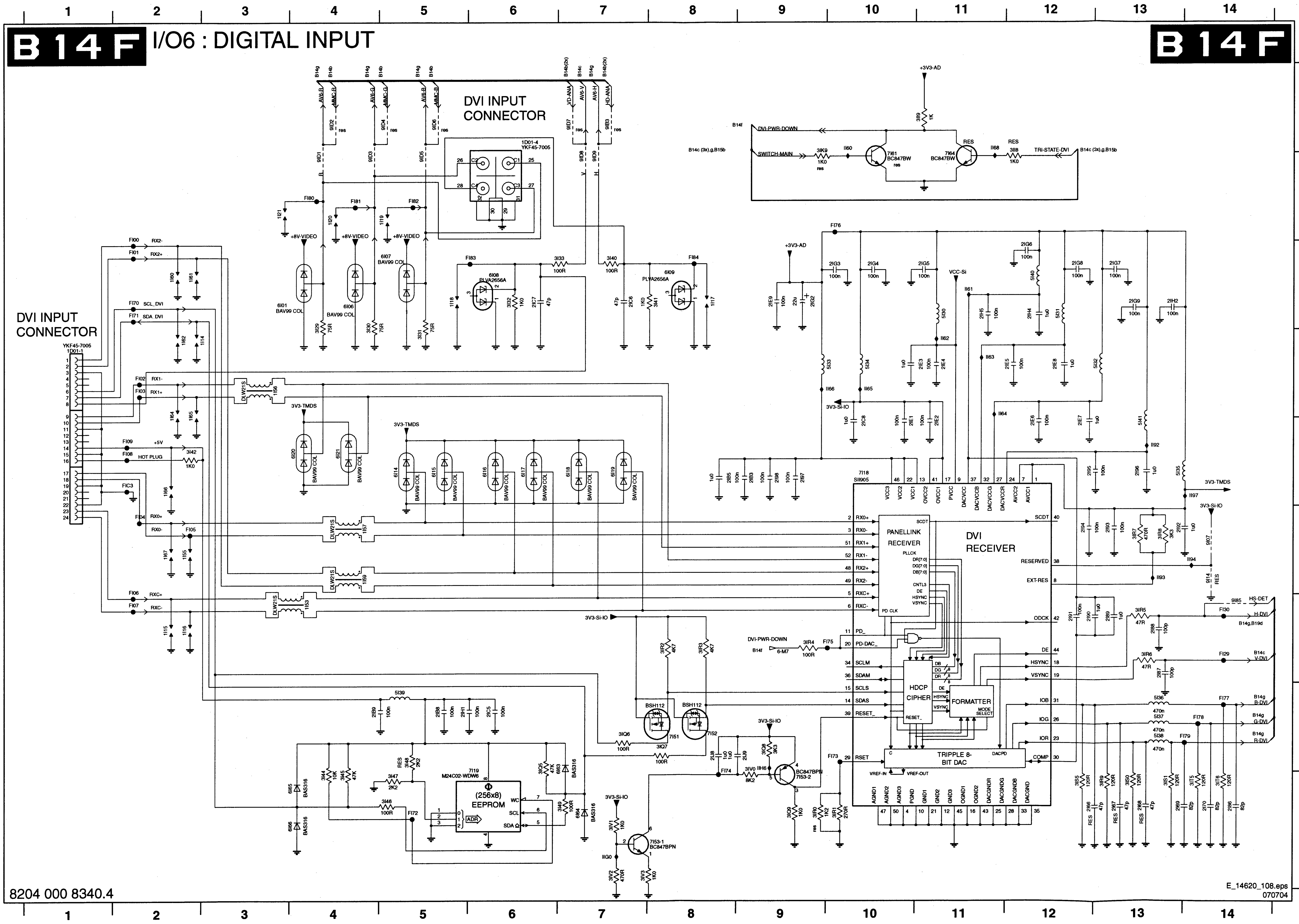
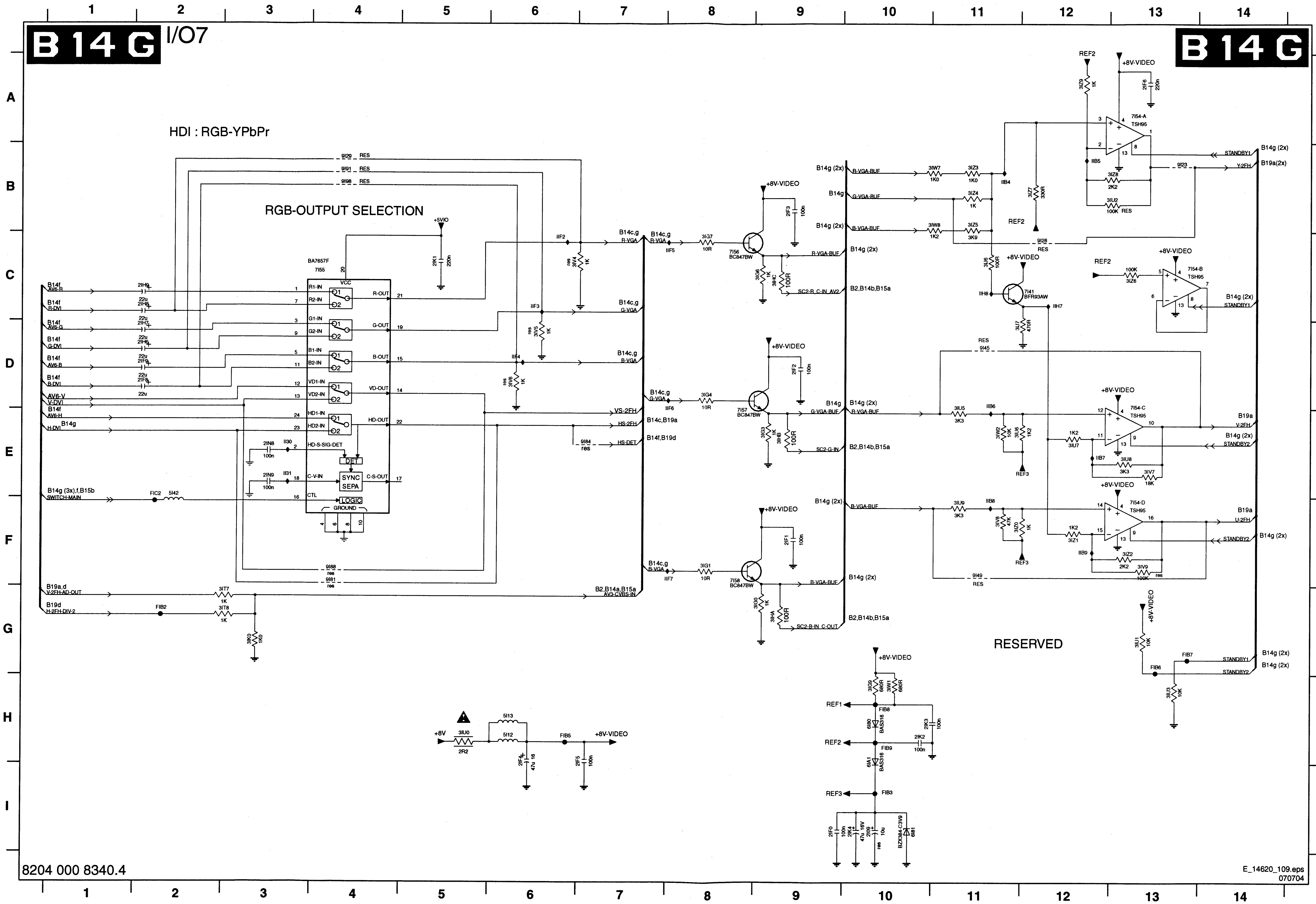
11
12
13
8204 000 8340.4
E_14620_107.eps
070704

SSB: I/O6: Digital Input


B14F
I/O6 : DIGITAL INPUT
DVI INPUT CONNECTOR
1D01-4
YKF45-7005
DVI INPUT CONNECTOR
YKF45-7005
1D01-1
+8V-VIDEO
3V3-TMDS
BAV99 COL
PLVA2656A
DLW21S
+5V
HOT PLUG
RX0+
RX0-
RX1+
RX1-
RX2+
RX2-
RXC+
RXC-
SCL_DVI
SDA_DVI
+3V3-AD
DVI-PWR-DOWN
SWITCH-MAIN
TRI-STATE-DVI
BC847BW
VCC-Si
3V3-Si-IO
7118
SiI905
PANELLINK RECEIVER
DVI RECEIVER
HDCP CIPHER
FORMATTER
TRIPPLE 8-BIT DAC
SCDT
RESERVED
EXT-RES
ODCK
DE
HSYNC
VSYNC
IOB
IOG
IOR
COMP
RSET
PD_
PD-DAC_
SCLM
SDAM
SCLS
SDAS
RESET_
7119
M24C02-WDW6
(256x8)
EEPROM
BSH112
BC847BPN
BAS316
HS-DET
H-DVI
V-DVI
B-DVI
G-DVI
R-DVI
3V3-TMDS
1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I
8204 000 8340.4
E_14620_108.eps
070704

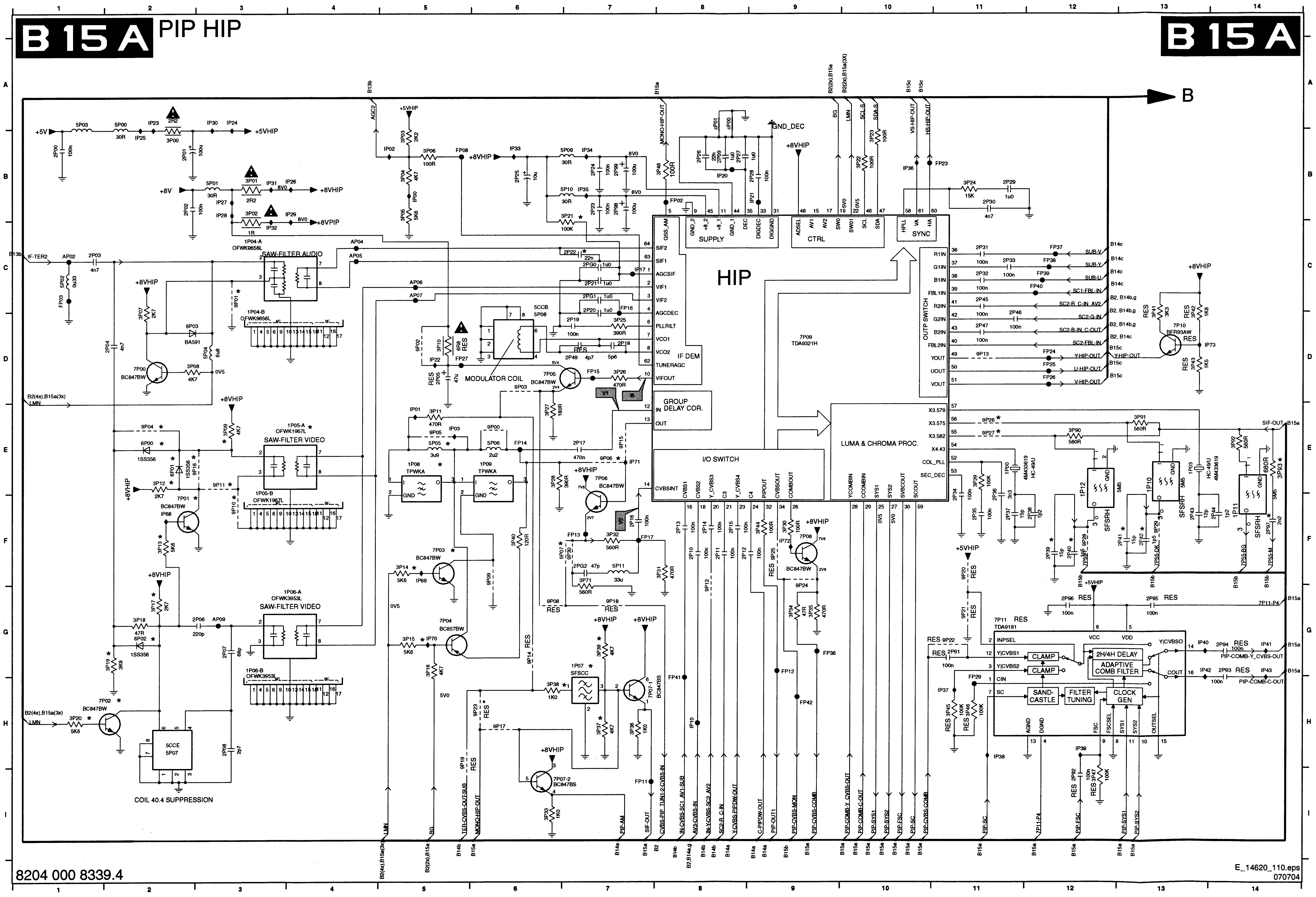
1D01-1	D1
1D01-4	A6
1I14	D2
1I15	G2
1I16	G2
1I17	C8
1I18	C5
1I19	B5
1I20	B4
1I21	B3
1I53	G4
1I55	F2
1I56	D3
1I57	F4
1I59	F4
1I60	C2
1I61	C2
1I62	D2
1I64	D2
1I65	D2
1I66	E2
1I67	F2
2I66	I12
2I67	I13
2I68	I13
2I69	I13
2I70	I14
2I86	I14
2I87	G13
2I88	G13
2I89	G13
2I90	G12
2I91	G12
2I92	F13
2I93	F13
2I94	F12
2I95	E12
2I96	E13
2I97	E9
2I98	E9
2IB3	E9
2IB5	E8
2IB8	H5
2IB9	H4
2IC5	H6
2IC6	C7
2IC7	C6
2IC8	E10
2IE1	E10
2IE2	E11
2IE3	D11
2IE4	D11
2IE5	D12
2IE6	E12
2IE7	E12
2IE8	D12
2IE9	C9
2IG2	C9
2IG3	C10
2IG4	C10
2IG5	C11
2IG6	C12
2IG7	C13
2IG8	C12
2IG9	C13
2IH1	H5
2IH2	C13
2IH4	C12
2IH5	C11
2IJ8	H8
2IJ9	H9
3I29	C4
3I30	C4
3I31	D5
3I32	C6
3I33	C7
3I40	C7
3I41	C8
3I42	E2
3I44	I4
3I45	I4
3I46	I5
3I47	I5
3I48	H5
3I49	I7
3II8	A12
3II9	A11
3IK9	A9
3IQ5	H6
3IQ6	H7
3IQ7	H8
3IQ8	H9
3IQ9	I9
3IR0	I9
3IR1	I10
3IR2	G8
3IR3	G8
3IR4	G9
3IR5	G13
3IR6	G13
3IR7	F13
3IR8	F13
3IR9	I13
3IS0	I13
3IS1	I13
3IS5	I12
3IT5	I14
3IT6	I14
3IV0	H9
3IV1	I7
3IV2	I7
3IV3	I7
5I30	C11
5I31	C12
5I32	D13
5I33	D10
5I34	D10
5I35	E13
5I36	H13
5I37	H13
5I38	H13
5I39	H5
5I40	C12
5I41	E13
6I01	C3
6I06	C4
6I07	C5
6I08	C6
6I09	C8
6I14	E5
6I15	E5
6I16	E6
6I17	E6
6I18	E7
6I19	E7
6I20	E4
6I21	E4
6I63	H7
6I64	I7
6I65	I4
6I66	I4
7I18	E10
7I19	I6
7I51	H8
7I52	H8
7I53-1	I8
7I53-2	I9
7I61	B10
7I64	B11
9I07	F14
9I14	F14
9I85	G14
9IB3	A7
9ID1	B4
9ID2	A4
9ID3	B4
9ID4	A5
9ID5	B5
9ID6	A5
9ID7	A7
9ID8	B7
9ID9	B7
FI00	B2
FI01	C2
FI02	D2
FI03	D2
FI04	F2
FI05	F2
FI06	F2
FI07	G2
FI08	E2
FI09	E2
FI29	G14
FI30	G14
FI70	C2
FI71	C2
FI72	I5
FI73	H10
FI74	I8
FI75	G10
FI76	B10
FI77	H14
FI78	H14
FI79	H14
FI80	B4
FI81	B4
FI82	B5
FI83	C6
FI84	C8
FIC3	E2
II60	A10
II61	C11
II62	D11
II63	D11
II64	D11
II65	D10
II66	D10
II68	A11
II92	E13
II93	F13
II94	F14
II97	E14
IIG0	I7
IIH6	H9

SSB: I/O7


B14G
I/O7
HDI : RGB-YPbPr
RGB-OUTPUT SELECTION
BA7657F
7155
RESERVED
B14G
7156 BC847BW
7157 BC847BW
7158 BC847BW
7141 BFR93AW
7154-A TSH95
7154-B TSH95
7154-C TSH95
7154-D TSH95
+8V-VIDEO
+5VIO
REF1
REF2
REF3
BAS316
BZX384-C3V9
STANDBY1
STANDBY2
V-2FH
U-2FH
Y-2FH
R-VGA-BUF
G-VGA-BUF
B-VGA-BUF
SC2-R_C-IN_AV2
SC2-G-IN
SC2-B-IN_C-OUT
SWITCH-MAIN
V-2FH-AD-OUT
H-2FH-DIV-2
AV3-CVBS-IN
VS-2FH
HS-2FH
HS-DET
8204 000 8340.4
E_14620_109.eps
070704

2I09	I10
2IF0	I9
2IF1	F9
2IF2	D9
2IF3	B9
2IF4	H6
2IF5	H7
2IF6	A13
2IF8	D2
2IF9	D2
2IH6	D2
2IH7	D2
2IH8	C2
2IH9	C2
2IK1	C5
2IK2	H10
2IK3	H10
2IK4	I10
2IN8	E3
2IN9	E3
3IG0	F9
3IG1	F8
3IG3	D9
3IG4	D8
3IG6	B9
3IG7	C8
3IG9	H10
3IHA	G9
3IHB	E9
3IHC	C9
3IJ6	C11
3IJ7	D11
3IK0	G3
3IT7	G3
3IT8	G3
3IU0	H5
3IU1	G13
3IU2	B13
3IU3	H13
3IU5	D11
3IU6	E11
3IU7	E12
3IU8	E13
3IU9	F11
3IV4	C6
3IV5	D6
3IV6	D6
3IV7	E13
3IV8	F11
3IV9	F13
3IW1	H10
3IW2	E11
3IW7	B11
3IW8	B11
3IZ0	F11
3IZ1	F12
3IZ2	F13
3IZ3	B11
3IZ4	B11
3IZ5	B11
3IZ6	C13
3IZ7	B12
3IZ8	B13
3IZ9	A12
5I12	H6
5I13	H6
5I42	E2
6I80	H10
6I81	I10
6IA1	H10
7I41	C12
7I54-A	A13
7I54-B	C13
7I54-C	D13
7I54-D	F13
7I55	C4
7I56	C8
7I57	E8
7I58	F8
9I23	B13
9I28	C12
9I29	B4
9I45	D11
9I49	F11
9I81	F4
9I84	E7
9I88	F4
9I91	B4
9I98	B4
FIB2	G2
FIB3	I10
FIB5	H6
FIB6	G13
FIB7	G13
FIB8	H10
FIB9	H10
FIC2	E2
II30	E3
II31	E3
IIB4	B11
IIB5	B12
IIB6	D11
IIB7	E12
IIB8	F11
IIB9	F12
IIF2	C6
IIF3	C6
IIF4	D6
IIF5	C8
IIF6	D8
IIF7	F8
IIH7	C12
IIH8	C11

SSB: PIP HIP


B15A
PIP HIP
B15A
HIP
7P09
TDA9321H
SUPPLY
CTRL
SYNC
IF DEM
GROUP DELAY COR.
I/O SWITCH
LUMA & CHROMA PROC.
OUTP SWITCH
SAW-FILTER AUDIO
1P04-A OFWK9656L
1P04-B OFWK9656L
SAW-FILTER VIDEO
1P05-A OFWK1967L
1P05-B OFWK1967L
SAW-FILTER VIDEO
1P06-A OFWK3953L
1P06-B OFWK3953L
MODULATOR COIL
5CCB 5P08
5CCE 5P07
COIL 40.4 SUPPRESSION
1P08 TPWKA
1P09 TPWKA
1P07 SFSCC
7P11 TDA9181
CLAMP
CLAMP
2H/4H DELAY
ADAPTIVE COMB FILTER
SAND-CASTLE
FILTER TUNING
CLOCK GEN
7P10 BFR93AW
7P00 BC847BW
7P01 BC847BW
7P02 BC847BW
7P03 BC847BW
7P04 BC857BW
7P05 BC847BW
7P06 BC847BW
7P07-1 BC847BS
7P07-2 BC847BS
7P08 BC847BW
1P10 SFSRH
1P11 SFSRH
1P12 SFSRH
1P00 4M433619 HC-49/U
1P03 4M433619 HC-49/U
+5V
+5VHIP
+8V
+8VHIP
+8VPIP
IF-TER2
SIF-OUT
PIP-COMB-Y_CVBS-OUT
PIP-COMB-C-OUT
B
8204 000 8339.4
E_14620_110.eps
070704

1P00	E11	3P14	F5	9P20	F11
1P03	E13	3P15	G5	9P21	G11
1P04-A	C3	3P16	G5	9P22	G11
1P04-B	D3	3P17	G2	9P23	H6
1P05-A	E4	3P18	G2	9P24	G9
1P05-B	F3	3P19	G2	9P25	F9
1P06-A	G4	3P20	H1	9P26	E11
1P06-B	G3	3P21	B7	9P27	E11
1P07	G7	3P22	B10	9P28	F12
1P08	E5	3P23	B10	9P29	F13
1P09	E6	3P24	B11	9P30	F7
1P10	E13	3P25	D7	AP02	C1
1P11	F14	3P26	D7	AP04	C4
1P12	E12	3P27	E6	AP05	C4
2P00	B1	3P28	E6	AP06	C5
2P01	B2	3P29	E11	AP07	C5
2P02	B2	3P30	F9	AP09	G3
2P03	C1	3P31	F8	FP02	B8
2P04	D2	3P32	F7	FP03	C1
2P05	D5	3P33	I6	FP08	B5
2P06	G3	3P34	G9	FP11	I7
2P07	G3	3P35	G9	FP12	G9
2P08	H3	3P36	H7	FP13	F7
2P09	B8	3P37	H7	FP14	E6
2P10	F8	3P38	H6	FP15	D7
2P11	F8	3P39	G7	FP16	C7
2P12	F8	3P40	F6	FP17	F7
2P13	F8	3P41	D13	FP23	B11
2P14	F8	3P42	D13	FP24	D12
2P15	F8	3P43	D13	FP25	D12
2P16	F7	3P44	F9	FP26	D12
2P17	E7	3P45	H11	FP27	D5
2P18	D7	3P46	H11	FP29	H11
2P19	D7	3P47	I12	FP36	G9
2P20	C7	3P48	B8	FP37	C12
2P21	C7	3P71	F7	FP38	C12
2P22	C7	3P90	E12	FP39	C12
2P23	B7	3P91	E13	FP40	C12
2P24	B7	3P92	E14	FP41	H8
2P25	B6	3P93	E14	FP42	H9
2P26	B8	5P00	A2	IP00	B5
2P27	B8	5P01	B3	IP01	E5
2P28	B9	5P02	C1	IP02	B5
2P29	B11	5P03	A1	IP03	E5
2P30	B11	5P04	D3	IP10	H8
2P31	C11	5P05	E5	IP17	C7
2P32	C11	5P06	E6	IP20	B8
2P33	C11	5P07	H2	IP21	B9
2P34	F11	5P08	D6	IP22	D5
2P35	F11	5P09	B7	IP23	A2
2P36	F11	5P10	B7	IP24	A3
2P37	F11	5P11	F7	IP25	B2
2P38	F12	6P00	E2	IP26	B4
2P39	F12	6P01	E2	IP27	B3
2P40	F12	6P02	G2	IP28	B3
2P41	F13	6P03	D2	IP29	B4
2P42	F13	7P00	D2	IP30	A3
2P43	F13	7P01	F2	IP31	B3
2P44	F14	7P02	H1	IP32	C3
2P45	C11	7P03	F5	IP33	B6
2P46	D11	7P04	G5	IP34	B7
2P47	D11	7P05	D6	IP35	B7
2P49	D7	7P06	E7	IP36	B10
2P91	G11	7P07-1	H7	IP37	H11
2P92	I12	7P07-2	I6	IP38	H11
2P93	G14	7P08	F9	IP39	H12
2P94	G14	7P09	D9	IP40	G13
2P95	G13	7P10	D13	IP41	G14
2P96	G12	7P11	G11	IP42	G13
2P97	F14	9P00	E6	IP43	G14
2P98	B7	9P01	C3	IP68	F2
2P99	B7	9P02	D5	IP69	F5
2PG0	C7	9P03	D6	IP70	G5
2PG1	C7	9P04	E2	IP71	E7
2PG2	F7	9P05	E5	IP72	F9
3P00	B2	9P06	E7	IP73	D14
3P01	B3	9P07	F7	cP00	A8
3P02	B3	9P08	G6	cP01	A8
3P03	B5	9P09	F6		
3P04	B5	9P10	F3		
3P05	B5	9P11	E3		
3P06	B5	9P12	G8		
3P07	D2	9P13	D11		
3P08	D2	9P14	G6		
3P09	E3	9P15	E7		
3P10	D5	9P16	E3		
3P11	E5	9P17	H6		
3P12	E2	9P18	G7		
3P13	F2	9P19	H5		

SSB: PIP Switch

1P50	E2
2P50	E4
2P51	E1
2P52	F2
2P53	F2
2P54	F2
2P55	G2
2P56	G6
2P57	G6
2P58	F6
2P59	I5
2P60	H6
2P61	I6
2P62	F6
2P63	F7
2P65	F9
2P66	F9
2P70	E6
2P71	E15
2P72	E7
2P73	E8
2P74	D6
2P75	B8
2P76	E1
2P77	E4
2P78	E12
2P79	E7
2P80	F14
2P81	F14
2P87	D2
2P88	D1
2P90	E6
2PE7	H7
2PE8	G7
2PE9	A13
2PG6	F8
3P49	B13
3P50	D1
3P51	E1
3P52	E4
3P53	E2
3P54	F2
3P55	I6
3P56	H5
3P57	G6
3P60	F5
3P61	E8
3P62	H6
3P63	H6
3P64	H7
3P65	H15
3P66	G15
3P67	G14
3P68	F14
3P69	F14
3P70	F14
3P72	E14
3P74	E15
3P75	H6
3P76	F5
3P79	D4
3P80	C2
3P81	D4
3P82	D2
3P85	F14
3P86	C10
3P87	C10
3P88	D6
3P94	D5
3P95	D4
3P96	G7
3P97	G7
3P98	G6
3P99	G6
3PG7	F7
3PG8	F7
3PJ0	B11
3PJ1	B12
3PJ2	B12
3PJ3	B12
3PJ4	B13
3PJ5	B14
3PJ6	B14
3PJ7	B14
3PJ8	C14
3PJ9	C15
5P50	D4
5P51	E15
6P10	F8
7P51	D3
7P52	G4
7P52-1	F5
7P53-1	G6
7P53-2	H6
7P54	G9
7P55	B7
7P56	G13
7P58-1	G7
7P58-2	H8
7P59-1	F7
7P59-2	G7
7P60	B15
7P61-1	B14
7P61-2	C14
7P62	B13
7P63	B12
9P31	H6
9P32	G6
9P52	F5
9P53	G5
9P54	I6
9P69	I13
9P70	I13
9P71	I13
9P72	F1
9P73	G9
9P74	G9
9P75	H9
9PB7	B11
FP50	E15
FP51	G10
FP52	G10
FP53	G10
FP55	E15
FP56	C10
FP57	I7
FP59	G15
FP60	H9
IP50	C2
IP51	E4
IP52	F5
IP53	E2
IP54	E3
IP55	G6
IP56	E14
IP57	D8
IP58	E7
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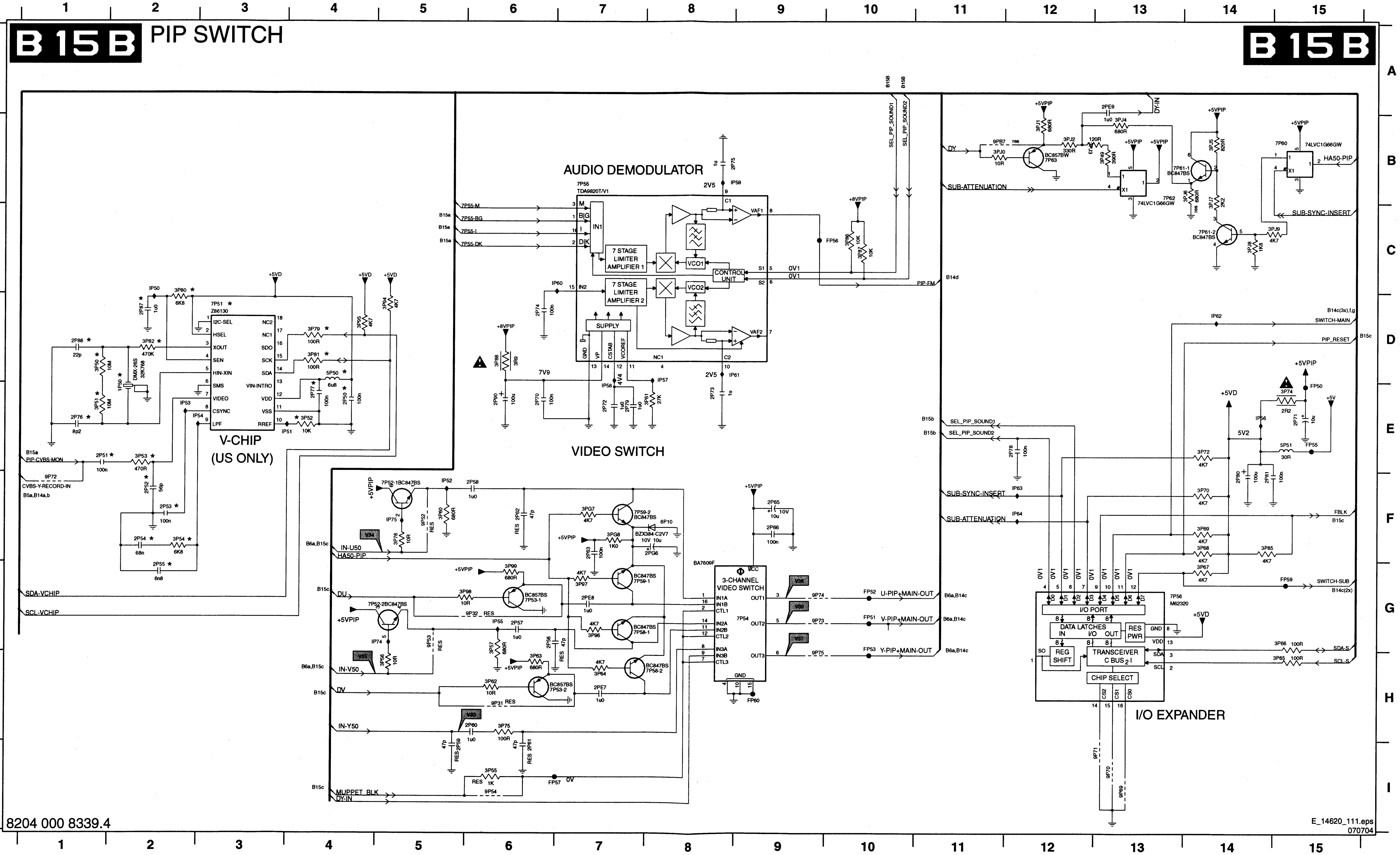
IP60	C7
IP61	D8
IP62	D14
IP63	F12
IP64	F12
IP74	G5
IP75	F5


B15B
PIP SWITCH
B15B
AUDIO DEMODULATOR
7P55
TDA9820T/V1
7 STAGE LIMITER AMPLIFIER 1
7 STAGE LIMITER AMPLIFIER 2
VCO1
VCO2
CONTROL UNIT
SUPPLY
VAF1
VAF2
V-CHIP
(US ONLY)
7P51
Z86130
VIDEO SWITCH
3-CHANNEL VIDEO SWITCH
BA7609F
7P54
I/O EXPANDER
7P56
M62320
I/O PORT
DATA LATCHES
REG SHIFT
TRANSCEIVER C BUS
CHIP SELECT
RES PWR
SEL_PIP_SOUND1
SEL_PIP_SOUND2
SUB-ATTENUATION
SUB-SYNC-INSERT
HA50-PIP
DY
DY-IN
PIP-FM
SWITCH-MAIN
PIP_RESET
FBLK
SWITCH-SUB
SDA-S
SCL-S
SDA-VCHIP
SCL-VCHIP
PIP-CVBS-MON
CVBS-Y-RECORD-IN
IN-U50
IN-V50
IN-Y50
DU
DV
MUPPET_BLK
U-PIP+MAIN-OUT
V-PIP+MAIN-OUT
Y-PIP+MAIN-OUT
+5VPIP
+5VD
+8VPIP
+5V
7P55-M
7P55-BG
7P55-I
7P55-DK
74LVC1G66GW
BC857BW
BC847BS
BC857BS
BZX384-C2V7
1
2
3
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5
6
7
8
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14
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A
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C
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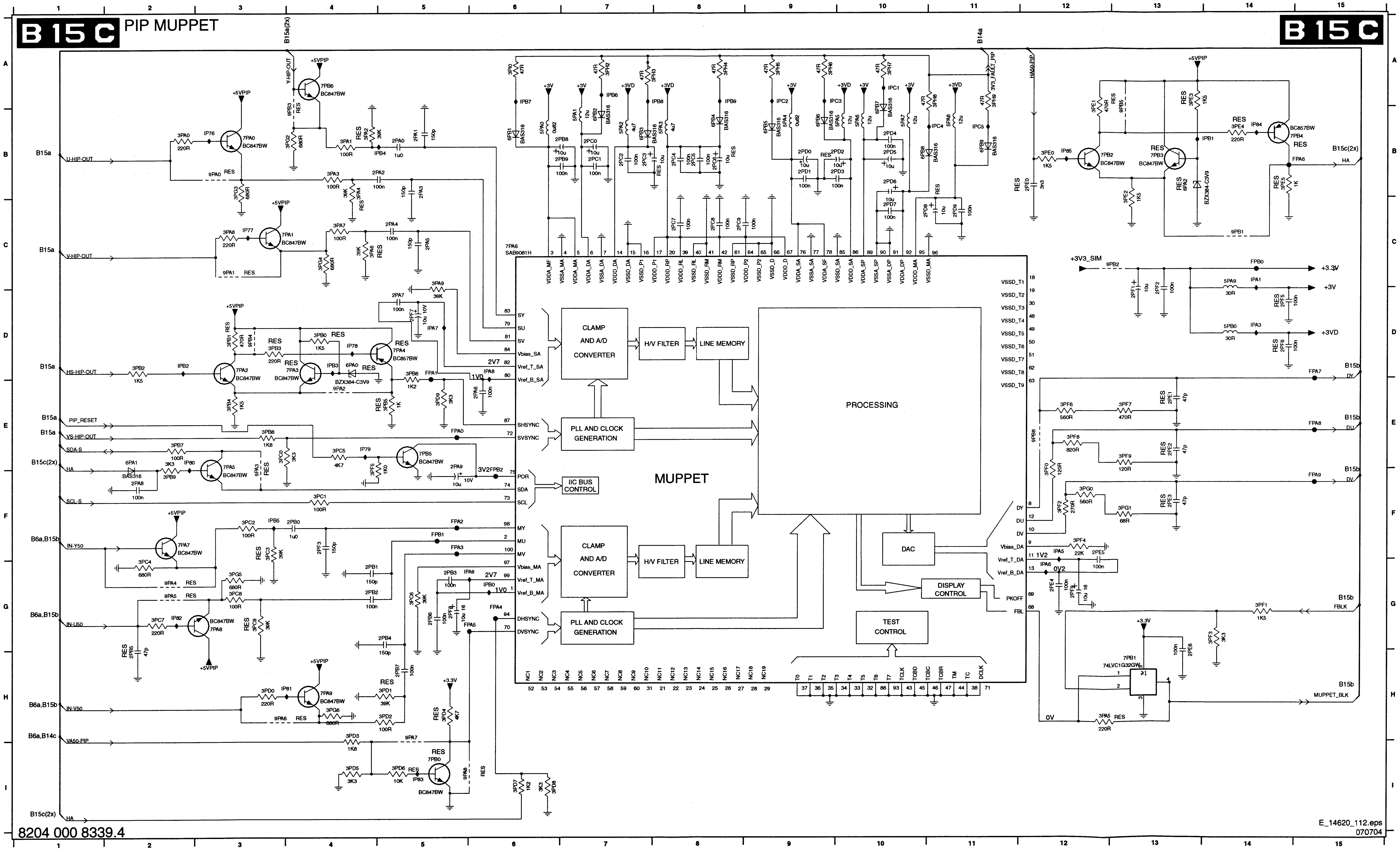
SSB: PIP Muppet

2PA0 B5
2PA1 B5
2PA2 B5
2PA3 B5
2PA4 C5
2PA5 C5
2PA6 E6
2PA7 D5
2PA8 F2
2PA9 E5
2PB0 F4
2PB1 G4
2PB2 G4
2PB3 G5
2PB4 G5
2PB5 H2
2PB6 G5
2PB7 H5
2PB8 B7
2PB9 B7
2PC0 B7
2PC1 B7
2PC2 B7
2PC3 B7
2PC4 B8
2PC5 B8
2PC6 B8
2PC7 C8
2PC8 C8
2PC9 C8
2PD0 B9
2PD1 B9
2PD2 B10
2PD3 B10
2PD4 B10
2PD5 B10
2PD6 B10
2PD7 C10
2PD8 C10
2PD9 C11
2PE0 B12
2PE1 E13
2PE2 E13
2PE3 F13
2PE4 G12
2PE5 F12
2PE6 H13
2PF1 D13
2PF2 D13
2PF3 F4
2PF5 D14
2PF6 D14
2PF7 D5
2PF8 G5
2PF9 G12
3PA0 B2
3PA1 B4
3PA2 B4
3PA3 B4
3PA4 B4
3PA5 H12
3PA6 C4
3PA7 C4
3PA8 C3
3PA9 C5
3PB0 D4
3PB1 D3
3PB2 D2
3PB3 D3
3PB4 E3
3PB5 E5
3PB6 D5
3PB7 E2
3PB8 E3
3PB9 F2
3PC0 E3
3PC1 F4
3PC2 F3
3PC3 F3
3PC4 G2
3PC5 E4
3PC6 G5
3PC7 G2
3PC8 G3
3PC9 G3
3PD0 H3
3PD1 H5
3PD2 H5
3PD3 H4
3PD4 H5
3PD5 I4
3PD6 I5
3PD7 I6
3PD8 I6
3PD9 E5
3PE0 B12
3PE1 B12
3PE2 C13
3PE3 A13
3PE4 B14
3PE5 B14
3PF0 F12
3PF1 G14
3PF2 F12
3PF3 G14
3PF4 F12
3PF5 F4
3PF6 E12
3PF7 E13
3PF8 E12
3PF9 E13
3PG0 F12
3PG1 F13
3PG2 B4
3PG3 B3
3PG4 C4
3PG5 G3
3PG6 H4
3PH2 A7
3PH3 A7
3PH4 A8
3PH5 A9
3PH6 A9
3PH7 A10
3PH8 A11
3PH9 A11
3PI0 A6
5PA0 B6
5PA1 B7
5PA2 B7
5PA3 B8
5PA4 B9
5PA5 B10
5PA6 B10
5PA7 B10
5PA8 B11
5PA9 C14
5PB0 D14
6PA0 D4
6PA1 E2
6PA2 B13
6PB1 B6
6PB2 B7
6PB3 B7
6PB4 B8
6PB5 B9
6PB6 B9
6PB7 B10
6PB8 B10
6PB9 B11
7PA0 B3
7PA1 C3
7PA2 D3
7PA3 D4
7PA4 D5
7PA5 E3
7PA6 C6
7PA7 F2
7PA8 G3
7PA9 H4
7PB0 I5
7PB1 H13
7PB2 B12
7PB3 B13
7PB4 B14
7PB5 E5
7PB6 A4
9PA0 B3
9PA1 C3
9PA2 E4
9PA3 F3
9PA4 G2
9PA5 G2
9PA6 H3
9PA7 H5
9PA8 I5
9PB1 C14
9PB2 C13
9PB3 B4
9PB4 D3
9PB5 B13
9PB8 E12
FPA0 E5
FPA1 D5
FPA2 F5
FPA3 F5
FPA4 G6
FPA5 G6
FPA6 B15
FPA7 D15
FPA8 E15
FPA9 F15
FPB0 C14
FPB1 F5
FPB2 F6
IP76 B3
IP77 C3
IP78 D4
IP79 E4
IP80 E2
IP81 H4
IP82 G2
IP83 I5
IP84 B14
IP85 B12
IPA1 C14
IPA3 D14
IPA5 F12
IPA6 G12
IPA7 D5
IPA8 D6
IPA9 G6
IPB0 G6
IPB1 B14
IPB2 D2
IPB3 D4
IPB4 B5
IPB5 F3
IPB6 A7
IPB7 A6
IPB8 A8
IPB9 A8
IPC1 A10
IPC2 A9
IPC3 A9
IPC4 B11
IPC5 B11


B15C
PIP MUPPET
B15a(2x)
B14a
B15a
U-HIP-OUT
V-HIP-OUT
HS-HIP-OUT
PIP_RESET
VS-HIP-OUT
SDA-S
B15c(2x)
HA
SCL-S
B6a,B15b
IN-Y50
IN-U50
IN-V50
B6a,B14c
VA50-PIP
+5VPIP
+3V
+3VD
+3V3_SIM
+3.3V
7PA6
SAB9081H
CLAMP AND A/D CONVERTER
H/V FILTER
LINE MEMORY
PLL AND CLOCK GENERATION
IIC BUS CONTROL
MUPPET
PROCESSING
DAC
DISPLAY CONTROL
TEST CONTROL
B15b
DY
DU
DV
FBLK
MUPPET_BLK
74LVC1G32GW
BC847BW
BC857BW
BZX384-C3V9
BAS316
1
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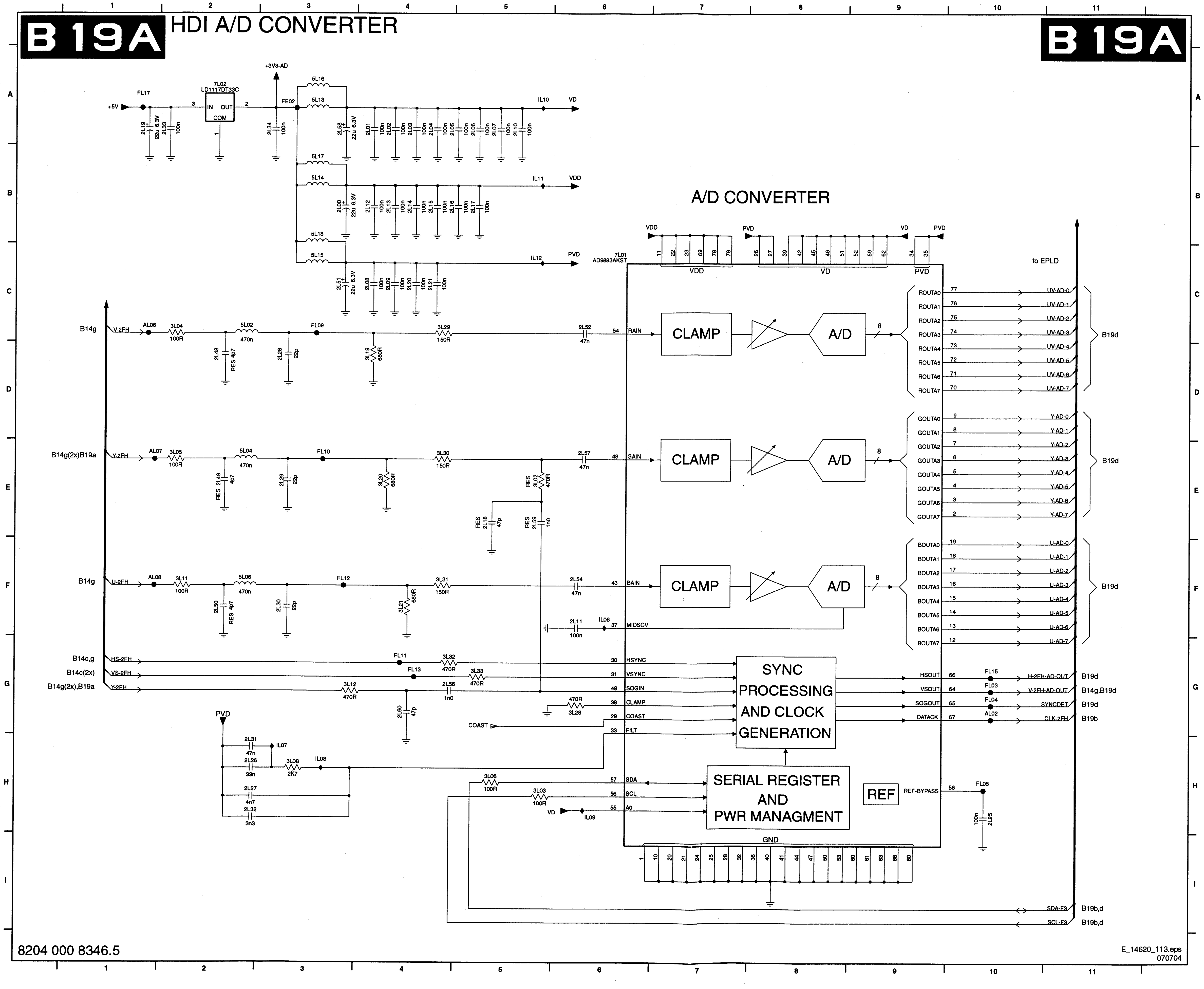
SSB: HDI A/D Converter


B19A
HDI A/D CONVERTER
B19A
+5V
FL17
7L02
LD1117DT33C
IN
OUT
COM
+3V3-AD
FE02
5L16
5L13
5L17
5L14
5L18
5L15
IL10
VD
IL11
VDD
IL12
PVD
2L19 22u 6.3V
2L33 100n
2L34 100n
2L58 22u 6.3V
2L00 22u 6.3V
2L51 22u 6.3V
A/D CONVERTER
7L01
AD9883AKST
VDD
VD
PVD
to EPLD
B14g
V-2FH
AL06
3L04 100R
5L02 470n
FL09
3L29 150R
2L52 47n
2L48 RES 4p7
2L28 22p
3L19 680R
RAIN
CLAMP
A/D
8
ROUTA0
ROUTA1
ROUTA2
ROUTA3
ROUTA4
ROUTA5
ROUTA6
ROUTA7
UV-AD-0
UV-AD-1
UV-AD-2
UV-AD-3
UV-AD-4
UV-AD-5
UV-AD-6
UV-AD-7
B19d
B14g(2x)B19a
Y-2FH
AL07
3L05 100R
5L04 470n
FL10
3L30 150R
2L57 47n
2L49 RES 4p7
2L29 22p
3L20 680R
3L02 RES 470R
2L18 RES 47p
2L59 RES 1n0
GAIN
GOUTA0
GOUTA1
GOUTA2
GOUTA3
GOUTA4
GOUTA5
GOUTA6
GOUTA7
Y-AD-0
Y-AD-1
Y-AD-2
Y-AD-3
Y-AD-4
Y-AD-5
Y-AD-6
Y-AD-7
B14g
U-2FH
AL08
3L11 100R
5L06 470n
FL12
3L31 150R
2L54 47n
2L50 RES 4p7
2L30 22p
3L21 680R
BAIN
BOUTA0
BOUTA1
BOUTA2
BOUTA3
BOUTA4
BOUTA5
BOUTA6
BOUTA7
U-AD-0
U-AD-1
U-AD-2
U-AD-3
U-AD-4
U-AD-5
U-AD-6
U-AD-7
2L11 100n
IL06
MIDSCV
B14c,g
HS-2FH
B14c(2x)
VS-2FH
B14g(2x),B19a
Y-2FH
FL11
3L32 470R
FL13
3L33 470R
3L12 470R
2L56 1n0
2L60 47p
3L28 470R
COAST
HSYNC
VSYNC
SOGIN
CLAMP
COAST
FILT
SYNC PROCESSING AND CLOCK GENERATION
HSOUT
VSOUT
SOGOUT
DATACK
FL15
FL03
FL04
AL02
H-2FH-AD-OUT
V-2FH-AD-OUT
SYNCDET
CLK-2FH
B19d
B14g,B19d
B19d
B19b
PVD
2L31 47n
IL07
2L26 33n
3L08 2K7
IL08
2L27 4n7
2L32 3n3
3L06 100R
3L03 100R
VD
IL09
SDA
SCL
A0
SERIAL REGISTER AND PWR MANAGMENT
REF
REF-BYPASS
FL05
2L25 100n
GND
SDA-F3
SCL-F3
B19b,d
B19b,d
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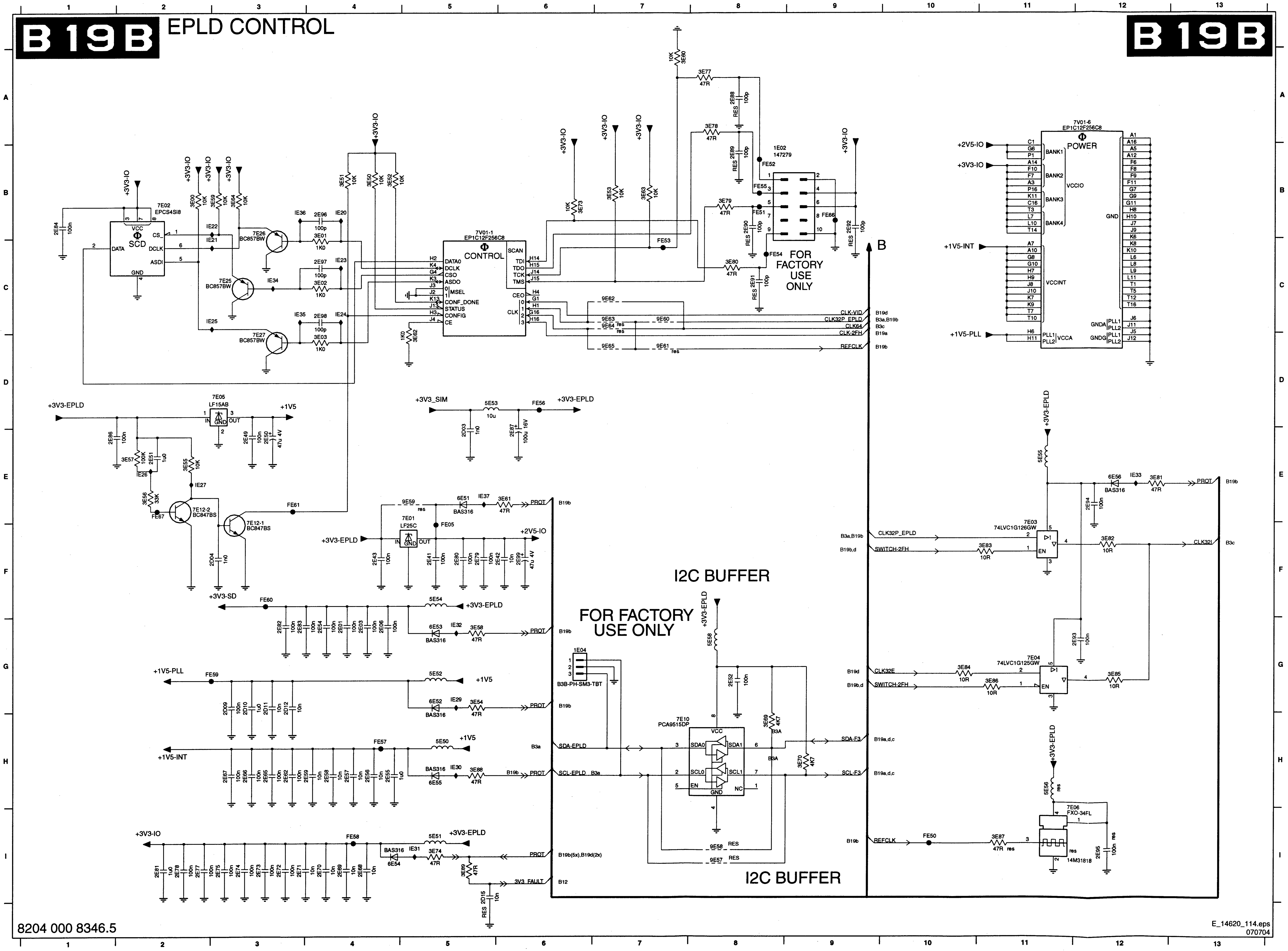
2L00	B3
2L01	A4
2L02	A4
2L03	A4
2L04	A4
2L05	A4
2L06	A5
2L07	A5
2L08	C4
2L09	C4
2L10	A5
2L11	F6
2L12	B4
2L13	B4
2L14	B4
2L15	B4
2L16	B4
2L17	B5
2L18	E5
2L19	A1
2L20	C4
2L21	C4
2L25	H10
2L26	H2
2L27	H2
2L28	D3
2L29	E3
2L30	F3
2L31	H2
2L32	H2
2L33	A2
2L34	A3
2L48	D2
2L49	E2
2L50	F2
2L51	C3
2L52	C6
2L54	F6
2L56	G4
2L57	E6
2L58	A3
2L59	E5
2L60	G4
3L02	E5
3L03	H5
3L04	C2
3L05	E2
3L06	H5
3L08	H3
3L11	F2
3L12	G3
3L19	D4
3L20	E4
3L21	F4
3L28	G6
3L29	C4
3L30	E4
3L31	F4
3L32	G4
3L33	G5
5L02	C2
5L04	E2
5L06	F2
5L13	A3
5L14	B3
5L15	C3
5L16	A3
5L17	B3
5L18	B3
7L01	C6
7L02	A2
AL02	G10
AL06	C1
AL07	E1
AL08	F1
FE02	A3
FL03	G10
FL04	G10
FL05	H10
FL09	C3
FL10	E3
FL11	G4
FL12	F3
FL13	G4
FL15	G10
FL17	A1
IL06	F6
IL07	H3
IL08	H3
IL09	H6
IL10	A5
IL11	B5
IL12	C5

SSB: EPLD Control


B 19 B
EPLD CONTROL
B 19 B
7E02
EPCS4SI8
SCD
VCC
DATA
CS_
DCLK
ASDI
GND
7E26
BC857BW
7E25
BC857BW
7E27
BC857BW
7V01-1
EP1C12F256C8
CONTROL
DATA0
DCLK
CSO
ASDO
MSEL
CONF_DONE
STATUS
CONFIG
CE
SCAN
TDI
TDO
TCK
TMS
CEO
CLK
+3V3-IO
1E02
147279
FOR FACTORY USE ONLY
B
CLK-VID
CLK32P_EPLD
CLK64
CLK-2FH
REFCLK
7V01-6
EP1C12F256C8
POWER
+2V5-IO
+3V3-IO
+1V5-INT
+1V5-PLL
BANK1
BANK2
BANK3
BANK4
VCCIO
VCCINT
VCCA
GND
GNDA
GNDG
PLL1
PLL2
+3V3-EPLD
7E05
LF15AB
+1V5
+3V3_SIM
5E53
FE56
7E12-2
BC847BS
7E12-1
BC847BS
FE61
7E01
LF25C
+2V5-IO
PROT
+3V3-SD
FE60
5E54
+1V5-PLL
FE59
5E52
+1V5-INT
FE57
5E50
+3V3-IO
FE58
5E51
3V3_FAULT
I2C BUFFER
FOR FACTORY USE ONLY
1E04
B3B-PH-SM3-TBT
7E10
PCA9515DP
SDA-EPLD
SCL-EPLD
SDA0
SCL0
SDA1
SCL1
EN
NC
SDA-F3
SCL-F3
I2C BUFFER
7E03
74LVC1G126GW
CLK32P_EPLD
SWITCH-2FH
CLK32I
7E04
74LVC1G125GW
CLK32E
7E06
FXO-34FL
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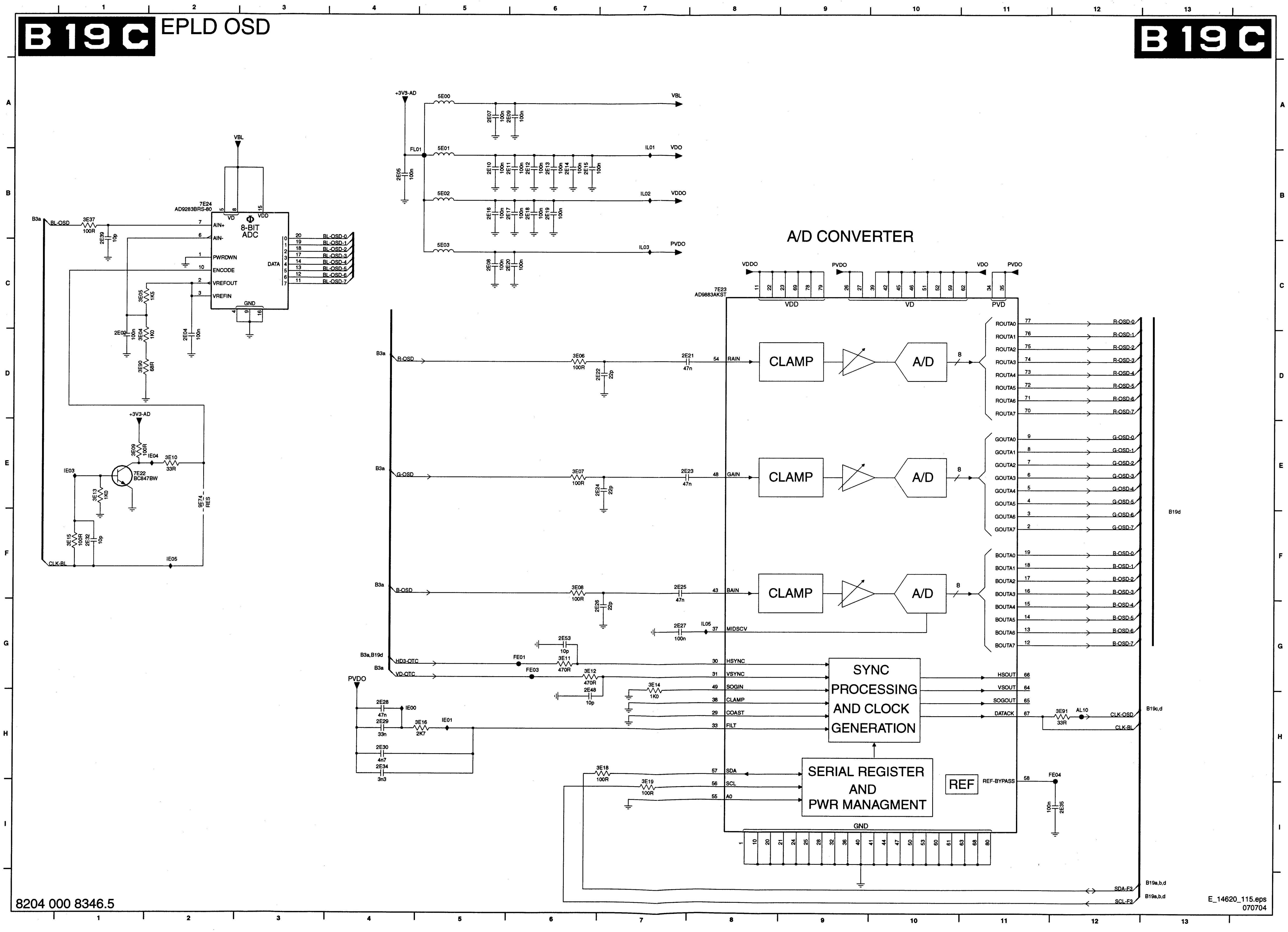
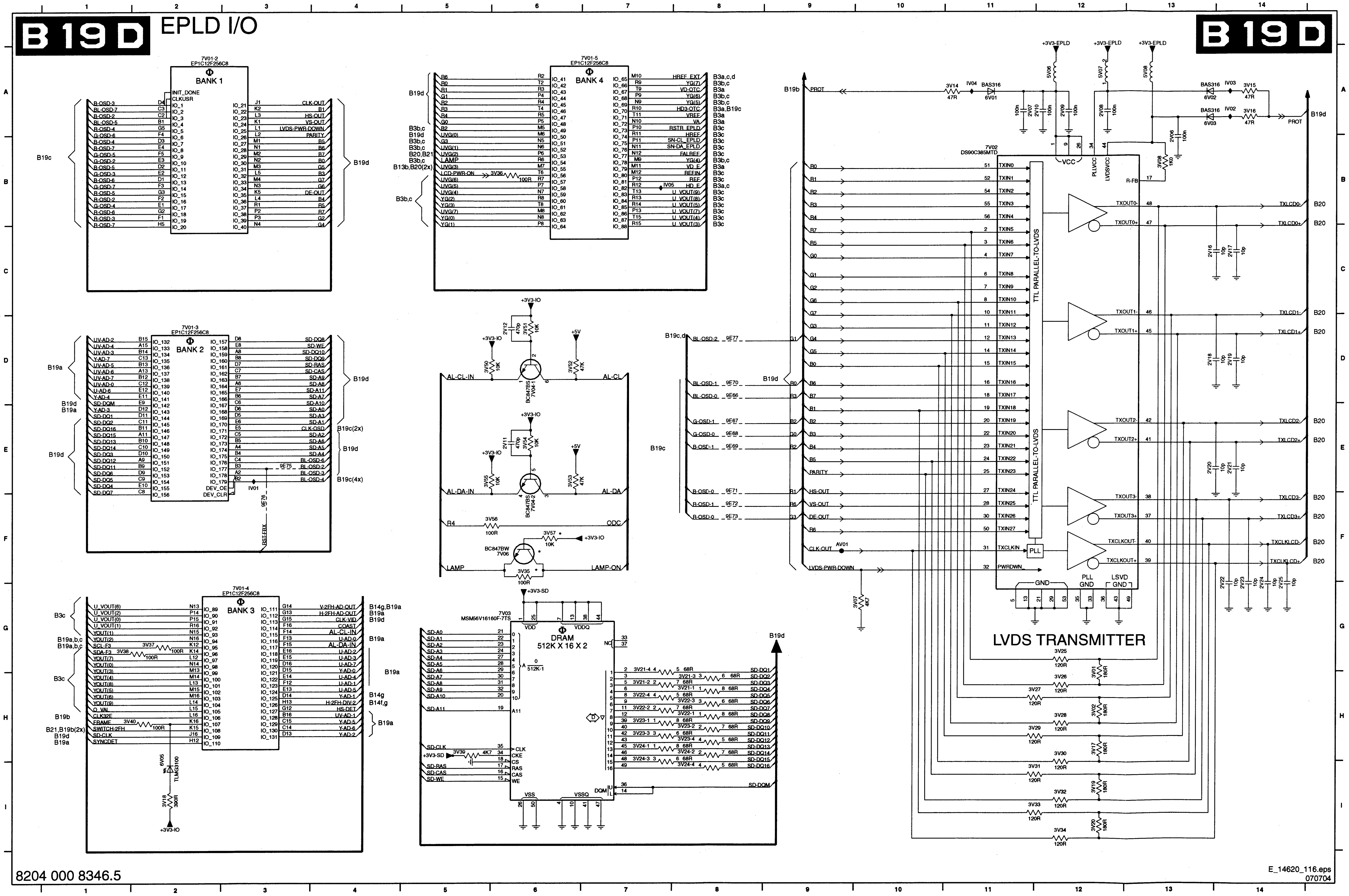
1E02	B8
1E04	G6
2D03	E5
2D04	F3
2D09	G3
2D10	G3
2D11	G3
2D12	G3
2D15	I5
2E01	G4
2E03	G4
2E06	G4
2E41	F5
2E42	F6
2E43	F4
2E49	E3
2E50	E3
2E51	E2
2E52	G8
2E54	G4
2E55	H4
2E56	H4
2E57	H4
2E58	H4
2E59	H4
2E62	H3
2E65	H3
2E66	H3
2E67	H3
2E68	I4
2E69	I4
2E70	I4
2E71	I3
2E72	I3
2E73	I3
2E74	I3
2E75	I3
2E77	I2
2E78	I2
2E79	F5
2E80	F5
2E81	I2
2E82	G3
2E83	G3
2E84	B1
2E86	E1
2E87	E6
2E88	A8
2E89	B8
2E90	B8
2E91	C8
2E92	B9
2E93	G12
2E94	E12
2E95	I12
2E96	B4
2E97	C4
2E98	C4
2E99	F6
3E00	B2
3E01	B4
3E02	C4
3E03	D4
3E50	B4
3E51	B4
3E52	B4
3E53	B7
3E54	G5
3E55	E2
3E56	E2
3E57	E2
3E58	G5
3E59	B3
3E60	A7
3E61	E6
3E62	D5
3E63	B7
3E64	B3
3E69	H8
3E70	H9
3E73	B6
3E74	I5
3E77	A8
3E78	A8
3E79	B8
3E80	C8
3E81	E12
3E82	F12
3E83	F11
3E84	G10
3E85	G12
3E86	G11
3E87	I11
3E88	H5
3E89	I5
5E50	H5
5E51	I5
5E52	G5
5E53	D5
5E54	F5
5E55	E11
5E56	H11
5E58	G8
6E51	E5
6E52	G5
6E53	G5
6E54	I4
6E55	H5
6E56	E12
7E01	E5
7E02	B2
7E03	F11
7E04	G11
7E05	D3
7E06	I11
7E10	H8
7E12-1	F3
7E12-2	E2
7E25	C3
7E26	B3
7E27	C3
7V01-1	B5
7V01-6	A12
9E57	I8
9E58	I8
9E59	E5
9E60	C7
9E61	D7
9E62	C7
9E63	C7
9E64	C7
9E65	D7
FE05	F5
FE50	I10
FE51	B8
FE52	B8
FE53	C7
FE54	C8
FE55	B8
FE56	D6
FE57	H4
FE58	I4
FE59	G3
FE60	F3
FE61	E3
FE66	B9
FE67	E2
IE20	B4
IE21	C3
IE22	B3
IE23	C4
IE24	C4
IE25	C3
IE26	E2
IE27	E2
IE29	G5
IE30	H5
IE31	I5
IE32	G5
IE33	E12
IE34	C3
IE35	C3
IE36	B3
IE37	E5

SSB: EPLD OSD


B19C
EPLD OSD
B19C
VBL
7E24
AD9283BRS-80
VD
VDD
8-BIT
ADC
AIN+
AIN-
PWRDWN
ENCODE
VREFOUT
VREFIN
DATA
GND
BL-OSD
3E37
100R
2E39
10p
B3a
BL-OSD-0
BL-OSD-1
BL-OSD-2
BL-OSD-3
BL-OSD-4
BL-OSD-5
BL-OSD-6
BL-OSD-7
3E05
1K5
2E02
100n
3E04
1K0
2E04
100n
3E90
68R
+3V3-AD
3E09
100R
IE04
3E10
33R
IE03
7E22
BC847BW
3E13
1K0
9E74
RES
3E15
100R
2E32
10p
CLK-BL
IE05
+3V3-AD
5E00
2E07
100n
2E09
100n
VBL
FL01
5E01
2E05
100n
2E10
2E11
2E12
2E13
2E14
2E15
IL01
VDO
5E02
2E16
2E17
2E18
2E19
IL02
VDDO
5E03
2E08
2E20
IL03
PVDO
A/D CONVERTER
VDDO
PVDO
VDO
PVDO
7E23
AD9883AKST
VDD
VD
PVD
B3a
R-OSD
3E06
100R
2E22
22p
2E21
47n
RAIN
CLAMP
A/D
8
ROUTA0
ROUTA1
ROUTA2
ROUTA3
ROUTA4
ROUTA5
ROUTA6
ROUTA7
R-OSD-0
R-OSD-1
R-OSD-2
R-OSD-3
R-OSD-4
R-OSD-5
R-OSD-6
R-OSD-7
G-OSD
3E07
100R
2E24
22p
2E23
47n
GAIN
CLAMP
A/D
GOUTA0
GOUTA1
GOUTA2
GOUTA3
GOUTA4
GOUTA5
GOUTA6
GOUTA7
G-OSD-0
G-OSD-1
G-OSD-2
G-OSD-3
G-OSD-4
G-OSD-5
G-OSD-6
G-OSD-7
B19d
B-OSD
3E08
100R
2E26
22p
2E25
47n
BAIN
CLAMP
A/D
BOUTA0
BOUTA1
BOUTA2
BOUTA3
BOUTA4
BOUTA5
BOUTA6
BOUTA7
B-OSD-0
B-OSD-1
B-OSD-2
B-OSD-3
B-OSD-4
B-OSD-5
B-OSD-6
B-OSD-7
2E27
100n
IL05
MIDSCV
2E53
10p
B3a,B19d
HD3-OTC
FE01
3E11
470R
HSYNC
B3a
VD-OTC
FE03
3E12
470R
2E48
10p
VSYNC
PVDO
3E14
1K0
SOGIN
CLAMP
COAST
FILT
2E28
47n
IE00
2E29
33n
3E16
2K7
IE01
2E30
4n7
2E34
3n3
SYNC
PROCESSING
AND CLOCK
GENERATION
HSOUT
VSOUT
SOGOUT
DATACK
3E91
33R
AL10
CLK-OSD
CLK-BL
B19c,d
3E18
100R
3E19
100R
SDA
SCL
A0
SERIAL REGISTER
AND
PWR MANAGMENT
REF
REF-BYPASS
FE04
100n
2E35
GND
SDA-F3
SCL-F3
B19a,b,d
B19a,b,d
8204 000 8346.5
E_14620_115.eps
070704

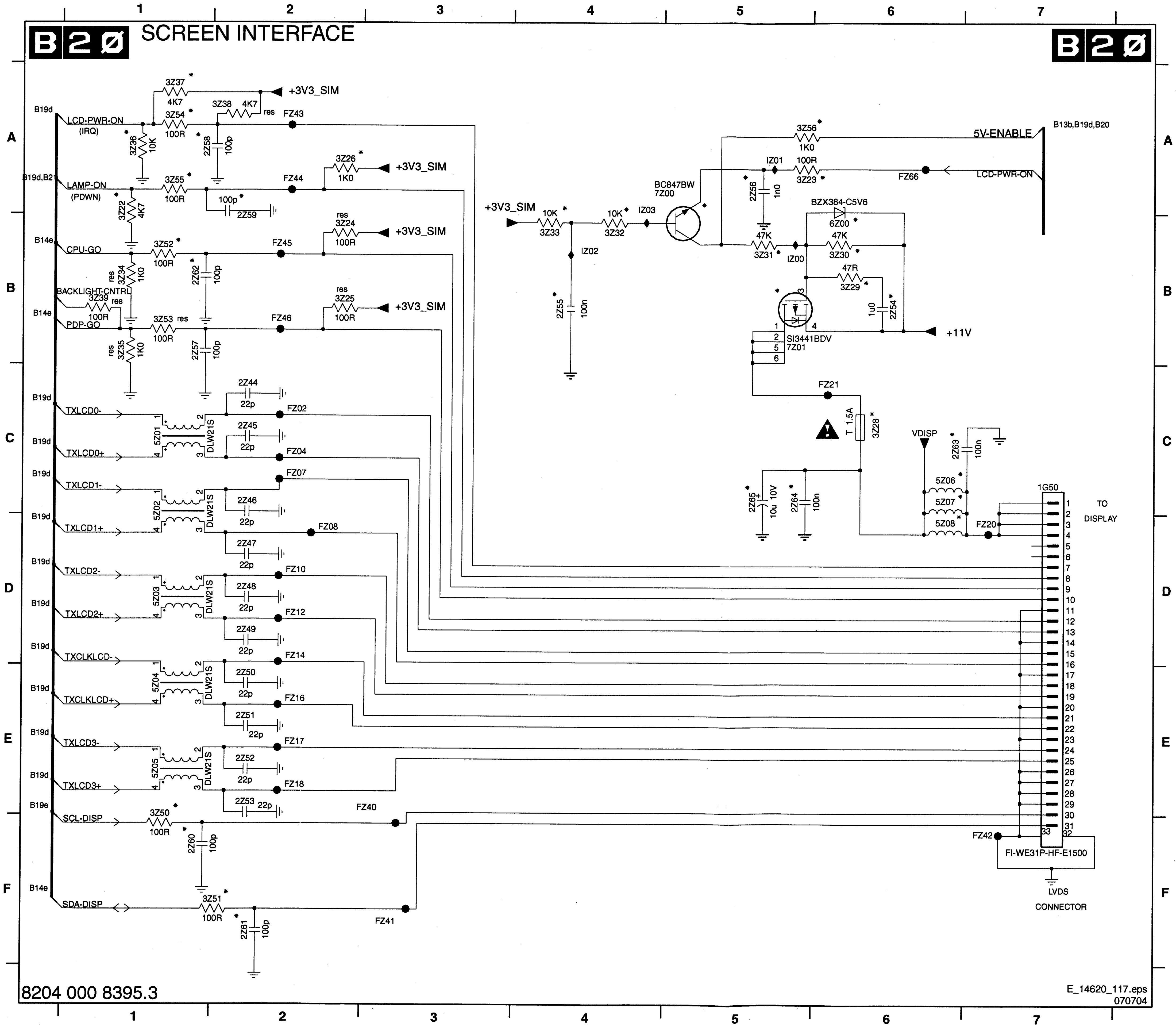
2E02	D1
2E04	D2
2E05	B4
2E07	A5
2E08	C5
2E09	A6
2E10	B5
2E11	B6
2E12	B6
2E13	B6
2E14	B6
2E15	B6
2E16	B5
2E17	B6
2E18	B6
2E19	B6
2E20	C6
2E21	D7
2E22	D7
2E23	E7
2E24	E7
2E25	F7
2E26	G7
2E27	G7
2E28	H4
2E29	H4
2E30	H4
2E32	F1
2E34	H4
2E35	I12
2E39	B1
2E48	H6
2E53	G6
3E04	D1
3E05	C1
3E06	D6
3E07	E6
3E08	F6
3E09	E1
3E10	E2
3E11	G6
3E12	G6
3E13	E1
3E14	G7
3E15	F1
3E16	H5
3E18	H7
3E19	I7
3E37	B1
3E90	D1
3E91	H12
5E00	A5
5E01	B5
5E02	B5
5E03	C5
7E22	E1
7E23	C8
7E24	B2
9E74	E2
AL10	H12
FE01	G6
FE03	G6
FE04	H12
FL01	B4
IE00	H4
IE01	H5
IE03	E1
IE04	E2
IE05	F2
IL01	A7
IL02	B7
IL03	C7
IL05	G8

SSB: EPLD I/O


B19D
EPLD I/O
7V01-2 EP1C12F256C8 BANK 1
7V01-3 EP1C12F256C8 BANK 2
7V01-4 EP1C12F256C8 BANK 3
7V01-5 EP1C12F256C8 BANK 4
7V02 DS90C385MTD
TTL PARALLEL-TO-LVDS
PLL
LVDS TRANSMITTER
7V03 MSM56V16160F-7TS
DRAM 512K X 16 X 2
BC847BS 7V04-1
BC847BS 7V04-2
BC847BW 7V06
AL-CL-IN
AL-DA-IN
LAMP
LAMP-ON
+3V3-IO
+3V3-EPLD
+3V3-SD
+5V
PROT
B19a
B19b
B19c
B19d
B20
8204 000 8346.5
E_14620_116.eps
070704

Ref	Pos
2V06	B13
2V07	A11
2V08	A12
2V09	A12
2V10	A12
2V11	E6
2V12	D6
2V16	C13
2V17	C14
2V18	D13
2V19	D14
2V20	E13
2V21	E14
2V22	G14
2V23	G14
2V24	G14
2V25	G14
3V01	H12
3V02	H12
3V07	G10
3V08	B13
3V14	A11
3V15	A14
3V16	A14
3V17	H12
3V18	I2
3V19	I12
3V20	I12
3V21-1	H8
3V21-2	H7
3V21-3	H8
3V21-4	G7
3V22-1	H8
3V22-2	H7
3V22-3	H8
3V22-4	H7
3V23-1	H7
3V23-2	H8
3V23-3	H7
3V23-4	H8
3V24-1	H7
3V24-2	H8
3V24-3	H7
3V24-4	I8
3V25	G12
3V26	H12
3V27	H12
3V28	H12
3V29	H12
3V30	H12
3V31	I12
3V32	I12
3V33	I12
3V34	I12
3V35	F6
3V36	B6
3V37	G2
3V38	G1
3V39	H5
3V40	H1
3V50	D5
3V51	D6
3V52	D6
3V53	E6
3V54	E6
3V55	E5
3V56	F6
3V57	F6
5V06	A12
5V07	A12
5V08	A13
6V01	A11
6V02	A13
6V03	A13
6V05	I2
7V01-2	A2
7V01-3	D2
7V01-4	G3
7V01-5	A7
7V02	B11
7V03	G6
7V04-1	D6
7V04-2	F6
7V06	F6
9E66	D8
9E67	E8
9E68	E8
9E69	E8
9E70	D8
9E71	E8
9E72	F8
9E73	F8
9E75	E3
9E76	F3
9E77	D8
AV01	F9
IV01	E3
IV02	A14
IV03	A14
IV04	A11
IV05	B7

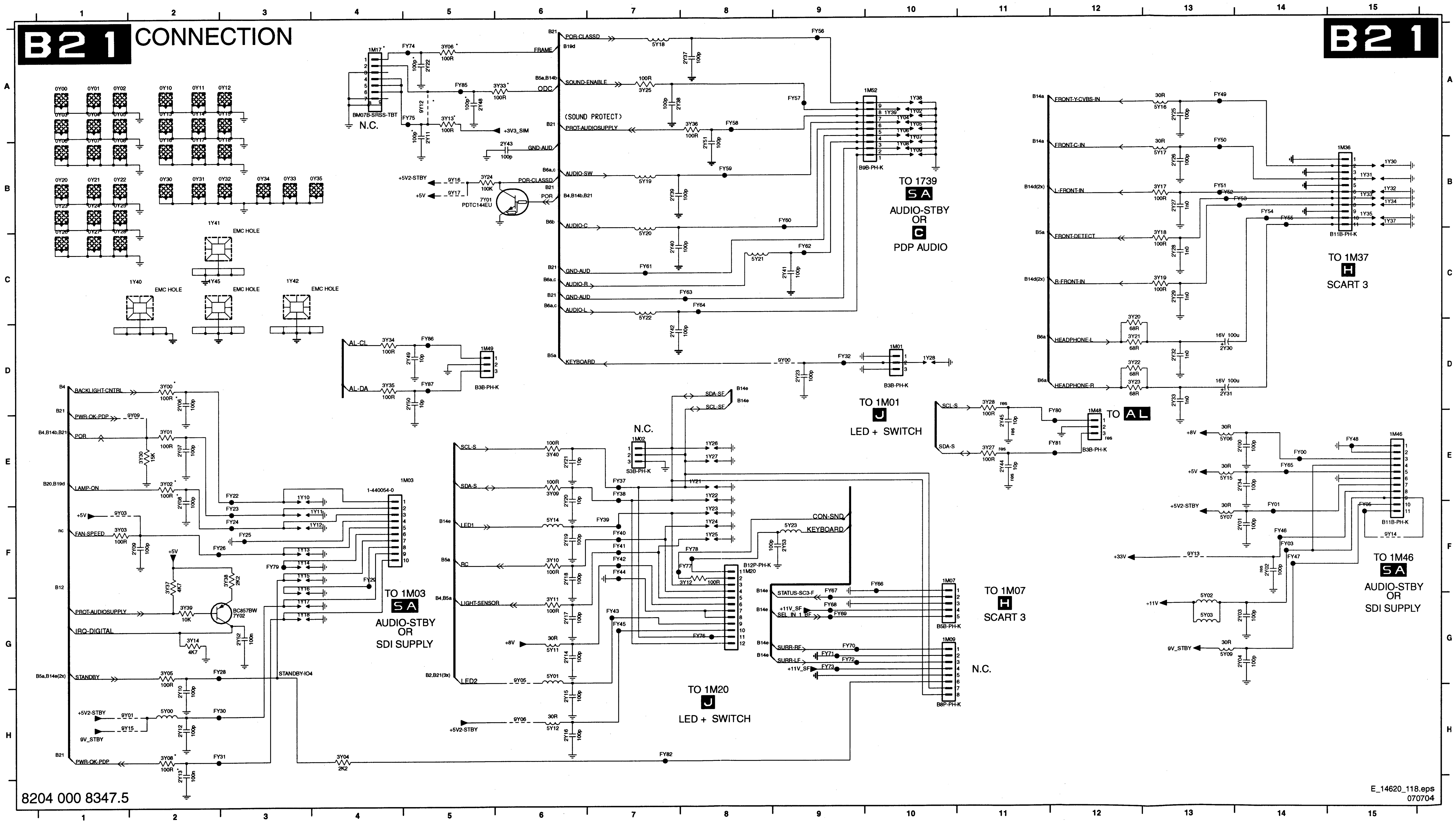
SSB: Screen Interface


B20
SCREEN INTERFACE
B20
1 2 3 4 5 6 7
A B C D E F
B19d
LCD-PWR-ON
(IRQ)
3Z37 4K7
+3V3_SIM
3Z38 4K7 res
FZ43
3Z54 100R
3Z36 10K
2Z58 100p
B19d,B21
LAMP-ON
(PDWN)
3Z55 100R
3Z22 4K7
100p 2Z59
FZ44
3Z26 1K0
+3V3_SIM
B14e
CPU-GO
3Z52 100R
3Z34 1K0 res
2Z62 100p
FZ45
res 3Z24 100R
+3V3_SIM
BACKLIGHT-CNTRL
3Z39 res 100R
B14e
PDP-GO
3Z53 res 100R
3Z35 1K0 res
2Z57 100p
FZ46
res 3Z25 100R
+3V3_SIM
B19d
TXLCD0-
TXLCD0+
5Z01 DLW21S
2Z44 22p
2Z45 22p
FZ02
FZ04
TXLCD1-
TXLCD1+
5Z02 DLW21S
FZ07
2Z46 22p
FZ08
2Z47 22p
TXLCD2-
TXLCD2+
5Z03 DLW21S
FZ10
2Z48 22p
FZ12
2Z49 22p
TXCLKLCD-
TXCLKLCD+
5Z04 DLW21S
FZ14
2Z50 22p
FZ16
2Z51 22p
TXLCD3-
TXLCD3+
5Z05 DLW21S
FZ17
2Z52 22p
FZ18
2Z53 22p
B19e
SCL-DISP
3Z50 100R
2Z60 100p
FZ40
B14e
SDA-DISP
3Z51 100R
2Z61 100p
FZ41
+3V3_SIM
10K 3Z33
IZ02
2Z55 100n
10K 3Z32
IZ03
BC847BW 7Z00
3Z56 1K0
5V-ENABLE
B13b,B19d,B20
IZ01 100R 3Z23
2Z56 1n0
FZ66
LCD-PWR-ON
BZX384-C5V6 6Z00
47K 3Z31
IZ00
47K 3Z30
47R 3Z29
1u0 2Z54
SI3441BDV 7Z01
+11V
FZ21
T 1.5A 3Z28
VDISP
2Z63 100n
2Z65 10u 10V
2Z64 100n
5Z06
5Z07
5Z08
FZ20
1G50
TO DISPLAY
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33
FZ42
FI-WE31P-HF-E1500
LVDS CONNECTOR
8204 000 8395.3
E_14620_117.eps
070704

1G50	C7
2Z44	C2
2Z45	C2
2Z46	C2
2Z47	D2
2Z48	D2
2Z49	D2
2Z50	E2
2Z51	E2
2Z52	E2
2Z53	E2
2Z54	B6
2Z55	B4
2Z56	A5
2Z57	B1
2Z58	A1
2Z59	A2
2Z60	F1
2Z61	F2
2Z62	B1
2Z63	C6
2Z64	C5
2Z65	C5
3Z22	A1
3Z23	A5
3Z24	B2
3Z25	B2
3Z26	A2
3Z28	C6
3Z29	B6
3Z30	B6
3Z31	B5
3Z32	B4
3Z33	B4
3Z34	B1
3Z35	B1
3Z36	A1
3Z37	A1
3Z38	A2
3Z39	B1
3Z50	F1
3Z51	F2
3Z52	B1
3Z53	B1
3Z54	A1
3Z55	A1
3Z56	A5
5Z01	C1
5Z02	C1
5Z03	D1
5Z04	E1
5Z05	E1
5Z06	C6
5Z07	C6
5Z08	D6
6Z00	B6
7Z00	A4
7Z01	B5
FZ02	C2
FZ04	C2
FZ07	C2
FZ08	D2
FZ10	D2
FZ12	D2
FZ14	D2
FZ16	E2
FZ17	E2
FZ18	E2
FZ20	D7
FZ21	C6
FZ40	E3
FZ41	F3
FZ42	F7
FZ43	A2
FZ44	A2
FZ45	B2
FZ46	B2
FZ66	A6
IZ00	B5
IZ01	A5
IZ02	B4
IZ03	A4

SSB: Connection

0Y00 A1
0Y01 A1
0Y02 A1
0Y03 A1
0Y04 A1
0Y05 A1
0Y06 A1
0Y07 A1
0Y08 A1
0Y10 A2
0Y11 A2
0Y12 A3
0Y13 A2
0Y14 A2
0Y15 A3
0Y16 A2
0Y17 A2
0Y18 A3
0Y20 B1
0Y21 B1
0Y22 B1
0Y23 B1
0Y24 B1
0Y25 B1
0Y26 B1
0Y27 B1
0Y28 B1
0Y30 B2
0Y31 B2
0Y32 B3
0Y33 B3
0Y34 B3
0Y35 B4
1M01 D10
1M02 E7
1M03 E5
1M07 F10
1M09 G10
1M17 A4
1M20 F8
1M36 B15
1M46 E15
1M48 E12
1M49 D5
1M52 A10
1Y02 A10
1Y04 A10
1Y05 A10
1Y06 A10
1Y07 A10
1Y08 B10
1Y09 B10
1Y10 E3
1Y11 F4
1Y12 F4
1Y13 F3
1Y14 F3
1Y15 F3
1Y16 F3
1Y17 G3
1Y18 G3
1Y21 E8
1Y22 E8
1Y23 F8
1Y24 F8
1Y25 F8
1Y26 E8
1Y27 E8
1Y28 D10
1Y30 B15
1Y31 B15
1Y32 B15
1Y33 B15
1Y34 B15
1Y35 B15
1Y37 B15
1Y38 A10
1Y39 A10
1Y40 C2
1Y41 B2
1Y42 C3
1Y45 C2
2Y00 E14
2Y01 F14
2Y02 F14
2Y03 G14
2Y04 G14
2Y06 D2
2Y07 E2
2Y08 E2
2Y09 F2
2Y10 H2
2Y11 A5
2Y12 H2
2Y13 H2
2Y14 G6
2Y15 H6
2Y16 H6
2Y17 G6
2Y18 F6
2Y19 F6
2Y20 E6
2Y21 E6
2Y22 A5
2Y23 D9
2Y25 A13
2Y26 B13
2Y27 B13
2Y28 C13
2Y29 C13
2Y30 D13
2Y31 D13
2Y32 D13
2Y33 D13
2Y34 E14
2Y37 A8
2Y38 A7
2Y39 B7
2Y40 C7
2Y41 C9
2Y42 D7
2Y43 B6
2Y44 E11
2Y45 E11
2Y48 A5
2Y49 D5
2Y50 D5
2Y51 B8
2Y52 G3
2Y53 F9
3Y00 D2
3Y01 E2
3Y02 E2
3Y03 F1
3Y04 H4
3Y05 G2
3Y06 A5
3Y08 H2
3Y09 E6
3Y10 F6
3Y11 G6
3Y12 F8
3Y13 A5
3Y14 G2
3Y17 B13
3Y18 C13
3Y19 C13
3Y20 C12
3Y21 D12
3Y22 D12
3Y23 D12
3Y24 B5
3Y25 A7
3Y27 E11
3Y28 D11
3Y30 E2
3Y33 A6
3Y34 D4
3Y35 D4
3Y36 A8
3Y37 F2
3Y38 F3
3Y39 G2
3Y40 E6
5Y00 H2
5Y01 G6
5Y02 G13
5Y03 G13
5Y06 E13
5Y07 F13
5Y09 G13
5Y11 G6
5Y12 H6
5Y14 F6
5Y15 E13
5Y16 A13
5Y17 B13
5Y18 A7
5Y19 B7
5Y20 C7
5Y21 C8
5Y22 C7
5Y23 F9
7Y01 B5
7Y02 G3
9Y00 D9
9Y01 H1
9Y03 F1
9Y05 G6
9Y06 H6
9Y09 E2
9Y12 A5
9Y13 F13
9Y14 F15
9Y15 H1
9Y16 B5
9Y17 B5
FY00 E14
FY01 F14
FY03 F14
FY05 F15
FY22 E3
FY23 F3
FY24 F3
FY25 F3
FY26 F2
FY28 G2
FY29 F4
FY30 H2
FY31 H2
FY32 D9
FY37 E7
FY38 E7
FY39 F7
FY40 F7
FY41 F7
FY42 F7
FY43 G7
FY44 F7
FY45 G7
FY46 F14
FY47 F14
FY48 E15
FY49 A13
FY50 B13
FY51 B13
FY52 B13
FY53 B14
FY54 B14
FY55 B14
FY56 A9
FY57 A9
FY58 A8
FY59 B8
FY60 B9
FY61 C7
FY62 C9
FY63 C8
FY64 C8
FY65 E14
FY66 F10
FY67 F9
FY68 G9
FY69 G9
FY70 G9
FY71 G9
FY72 G9
FY73 G9
FY74 A5
FY75 A5
FY76 G8
FY77 F8
FY78 F8
FY79 F3
FY80 E12
FY81 E12
FY82 H7
FY85 A5
FY86 D5
FY87 D5


B21 CONNECTION
B21
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H
EMC HOLE
1M17
BM07B-SRSS-TBT
N.C.
FY74
3Y06 100R
FRAME
FY85
3Y33 100R
ODC
FY75
3Y13 100R
+3V3_SIM
9Y12
2Y43 100p
GND-AUD
+5V2-STBY
+5V
9Y16
9Y17
3Y24 100K
7Y01 PDTC144EU
POR-CLASSD
POR
B19d
B5a,B14b
B6a,c
B4,B14b,B21
B6b
B5a
SOUND-ENABLE
(SOUND PROTECT)
PROT-AUDIOSUPPLY
AUDIO-SW
AUDIO-C
GND-AUD
AUDIO-R
AUDIO-L
KEYBOARD
5Y18
3Y25 100R
3Y36 100R
5Y19
5Y20
5Y21
5Y22
FY56
FY57
FY58
FY59
FY60
FY61
FY62
FY63
FY64
1M52
B9B-PH-K
1Y38
1Y39
1Y02
1Y04
1Y05
1Y06
1Y07
1Y08
1Y09
TO 1739
SA
AUDIO-STBY
OR
C
PDP AUDIO
AL-CL
AL-DA
3Y34 100R
3Y35 100R
FY86
FY87
1M49
B3B-PH-K
9Y00
FY32
1M01
1Y28
TO 1M01
J
LED + SWITCH
FRONT-Y-CVBS-IN
FRONT-C-IN
L-FRONT-IN
FRONT-DETECT
R-FRONT-IN
HEADPHONE-L
HEADPHONE-R
B14a
B14d(2x)
B6a
5Y16 30R
5Y17 30R
3Y17 100R
3Y18 100R
3Y19 100R
3Y20 68R
3Y21 68R
3Y22 68R
3Y23 68R
2Y30 16V 100u
2Y31 16V 100u
FY49
FY50
FY51
FY52
FY53
FY54
FY55
1M36
B11B-PH-K
1Y30
1Y31
1Y32
1Y33
1Y34
1Y35
1Y37
TO 1M37
H
SCART 3
SCL-S
SDA-S
3Y28 100R res
3Y27 100R res
FY80
FY81
1M48
TO AL
B4
B21
B4,B14b,B21
B20,B19d
nc
B12
B5a,B14e(2x)
BACKLIGHT-CNTRL
PWR-OK-PDP
POR
LAMP-ON
FAN-SPEED
PROT-AUDIOSUPPLY
IRQ-DIGITAL
STANDBY
9Y09
9Y03
3Y00 100R
3Y01 100R
3Y02 100R
3Y03 100R
3Y30 15K
3Y37 4K7
3Y38 2K2
3Y39 10K
3Y14 4K7
BC857BW 7Y02
3Y05 100R
5Y00
9Y01
9Y15
9V_STBY
3Y08 100R
STANDBY-IO4
3Y04 2K2
FY22
FY23
FY24
FY25
FY26
FY28
FY29
FY30
FY31
FY79
1Y10
1Y11
1Y12
1Y13
1Y14
1Y15
1Y16
1Y17
1Y18
1M03
1-440054-0
TO 1M03
SA
AUDIO-STBY
OR
SDI SUPPLY
B14e
B5a
B4,B5a
B2,B21(3x)
SCL-S
SDA-S
LED1
RC
LIGHT-SENSOR
LED2
3Y40 100R
3Y09 100R
5Y14
3Y10 100R
3Y11 100R
5Y11 30R
+8V
5Y01
9Y05
9Y06
5Y12 30R
+5V2-STBY
N.C.
1M02
S3B-PH-K
SDA-SF
SCL-SF
1Y21
1Y22
1Y23
1Y24
1Y25
1Y26
1Y27
FY37
FY38
FY39
FY40
FY41
FY42
FY43
FY44
FY45
FY76
FY77
FY78
3Y12 100R
1M20
B12P-PH-K
CON-SND
KEYBOARD
5Y23
2Y53
TO 1M20
J
LED + SWITCH
FY82
STATUS-SC3-F
+11V_SF
SEL_IN_1_BF
SURR-RF
SURR-LF
FY66
FY67
FY68
FY69
FY70
FY71
FY72
FY73
1M07
B5B-PH-K
TO 1M07
H
SCART 3
1M09
B8P-PH-K
N.C.
+8V
+5V
+5V2-STBY
+33V
+11V
9V_STBY
5Y06 30R
5Y15 30R
5Y07 30R
5Y02
5Y03
5Y09 30R
9Y13
9Y14
FY00
FY01
FY03
FY05
FY46
FY47
FY48
FY65
1M46
B11B-PH-K
TO 1M46
SA
AUDIO-STBY
OR
SDI SUPPLY
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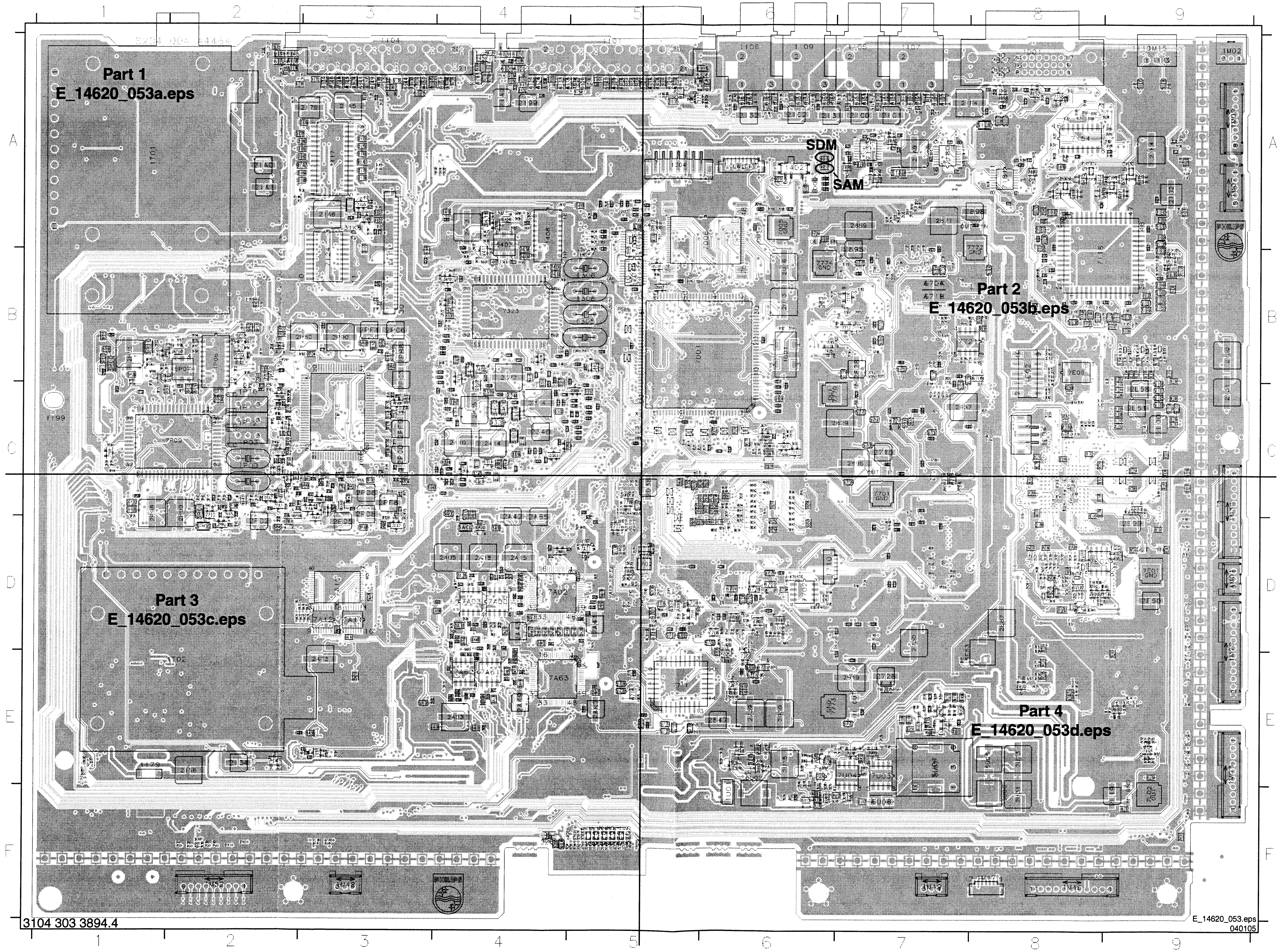
E_14620_118.eps
070704

Layout SSB (Top Side Overview)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Part 2
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Part 3
E_14620_053c.eps
Part 4
E_14620_053d.eps
SDM
SAM
1 2 3 4 5 6 7 8 9
A B C D E F
3104 303 3894.4
E_14620_053.eps
040105

Layout SSB Mapping (Top Side)

1000	A6
1001	B6
1304	A5
1305	B5
1306	B4
1307	B5
1308	B4
1401	A6
1402	A6
1408	A4
1702	D5
1703	D5
1710	D7
1D01	A8
1E02	B8
1E04	C8
1I01	A5
1I04	A4
1I05	A7
1I06	A6
1I07	A7
1I09	A6
1I11	A3
1I53	A8
1I56	A9
1I57	A8
1I59	A9
1I79	E1
1M01	D9
1M02	A9
1M03	E9
1M07	A9
1M09	A9
1M15	A9
1M17	F8
1M20	D9
1M36	C9
1M46	F8
1M48	F3
1M49	F7
1M52	F2
1P00	C2
1P03	C2
1P06	B2
1P10	C2
1P11	C2
1P12	C2
1T01	A2
1T02	E2
1U01	F6
2002	B6
2004	C6
2005	C6
2006	C6
2007	C6
2008	C6
2009	C5
2011	C5
2012	C5
2013	B6
2014	B6
2016	B6
2018	B6
2020	C6
2025	B5
2027	C5
2028	B6
2029	C6
2031	A6
2034	B5
2035	B5
2037	B6
2039	B5
2058	A6
2059	A6
2067	B5
2070	C6
2071	C6
2073	C6
2075	A6
2301	C4
2305	B4
2314	C4
2315	C4
2316	B4
2317	B4
2318	B4
2322	B4
2324	C4
2327	B5
2329	C5
2330	C5
2331	C5
2332	C4
2333	C4
2334	C4
2336	C4
2339	A5
2340	C4
2344	A5
2347	A5
2348	A5
2349	A5
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2380	B5
2381	B5
2382	B5
2383	A5
2388	B4
2389	C4
2391	A4
2393	C4
2394	C4
2395	C5
2396	C5
2397	C4
2398	C4
2401	B4
2403	B4
2404	B4
2405	A4
2406	A4
2407	A4
2408	A4
2409	B4
2410	C4
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2412	A4
2413	A4
2414	C4
2416	B4
2417	B4
2425	C4
2427	A5
2428	A5
2429	C4
2432	B4
2433	C4
2434	B4
2435	B4
2436	B4
2707	D6
2708	D6
2709	E6
2710	D7
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2715	C7
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2722	D5
2723	D7
2724	C8
2725	E7
2726	E6
2728	E7
2729	E7
2730	D7
2732	E5
2733	D6
2735	D5
2736	D6
2738	D7
2739	E6
2740	D5
2741	D5
2742	D5
2743	D6
2744	D6
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2747	D5
2749	D5
2750	A7
2751	A7
2752	B7
2753	B7
2755	B8
2756	B7
2758	B7
2759	B7
2760	B7
2761	B7
2762	B7
2763	B7
2764	C7
2765	B8
2768	A7
2770	B7
2771	B7
2772	B7
2773	B7
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2780	B7
2781	B7
2782	B7
2784	B7
2785	B7
2787	B7
2788	B7
2790	B7
2792	C5
2794	B7
2795	B7
2796	B7
2797	B7
2798	B7
2799	B7
2800	D5
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2805	B7
2809	A7
2810	C7
2811	C7
2813	C7
2814	B8
2815	B7
2816	B7
2818	B7
2819	D6
2820	C7
2821	B7
2822	B6
2824	B7
2826	B7
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2830	C7
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2834	C7
2835	C7
2836	C5
2837	A7
2838	A7
2839	A7
2840	C5
2841	C6
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2845	D6
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2847	E6
2848	E5
2849	B7
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2852	D6
2853	D6
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2856	C6
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2858	C6
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2873	B7
2874	D6
2875	D7
2876	C7
2877	D7
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2879	D7
2880	D7
2881	D5
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2888	D7
2889	A7
2890	D5
2891	E6
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2898	A8
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2921	B7
2922	E5
2923	E5
2924	A6
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2928	A7
2929	D5
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2938	C5
2939	E6
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2A02	D5
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2A05	D4
2A06	D4
2A08	C4
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2A11	D4
2A12	D3
2A13	D3
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2A15	D4
2A16	D4
2A17	D4
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2AB2	D4
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2AM2	E4
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2AM6	E4
2AM7	E4
2AM9	E4
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2C01	A5
2D03	E7
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2D10	C8
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2E26	E8
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2E30	E8
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2E34	E8
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2E42	C8
2E43	D9
2E50	D9
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2E57	C8
2E58	C8
2E59	C8
2E62	C8
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2I13	A2
2I14	A3
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2I17	A4
2I18	A4
2I19	A4
2I20	A5
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2I23	A2
2I24	A3
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2I27	A7
2I28	A6
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2PF3	C3
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2PF9	C3
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2U34	F6
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2V11	E9
2V12	E9
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2V17	D8
2V18	D8
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2V22	D8
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3065	B5
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3068	C6
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3074	C5
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3084	A6
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3090	C6
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3099	C6
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3335	C5
3336	C4
3340	C4
3341	B4
3342	B4
3343	C4
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3345	C4
3346	C4
3347	C4
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3349	B5
3353	C4
3361	C4
3363	C5
3370	B4
3371	B4
3372	B4
3376	B4
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3387	C5
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3412	C4
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3449	C4
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3461	B5
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3472	C4
3473	B4
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3475	B4
3476	B4
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3703	D6
3704	D6
3705	D6
3706	D5
3707	E7
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3717	C5
3718	D5
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3723	D5
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3729	B8
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3733	D6
3734	D6
3736	D6
3737	D6
3738	D6
3739	D6
3740	E6
3741	D6
3742	D6
3743	D6
3744	D5
3745	B6
3746	D6
3747	D6
3748	D6
3749	D6
3750	D6
3751	E6
3752	D6
3753	D5
3754	D6
3755	D6
3756	D6
3760	D7
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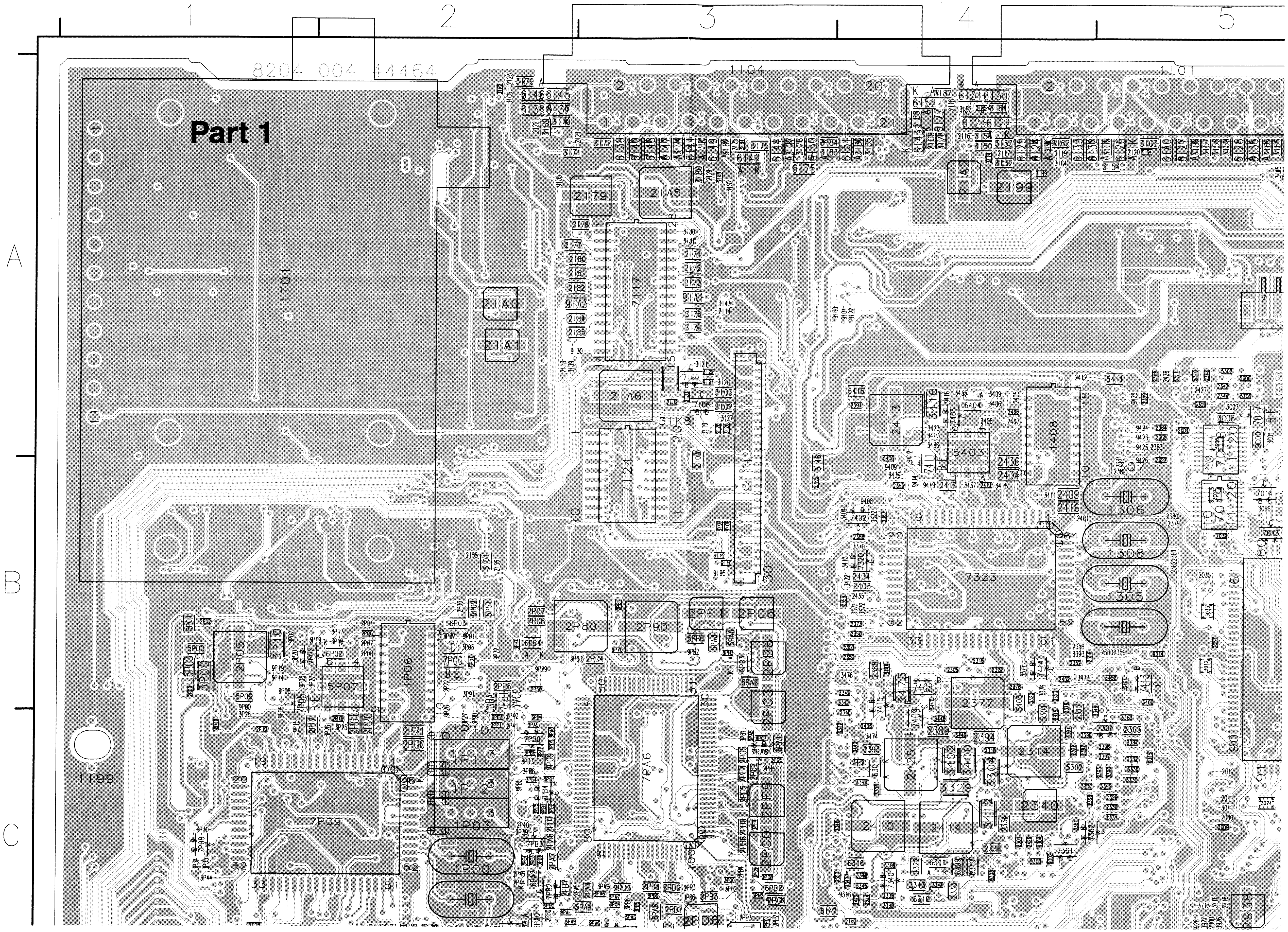
270504

Layout SSB (Top Side Part 1)


1
2
3
4
5
A
B
C
Part 1
8204 004 44464
1104
1101
1T01
7117
7124
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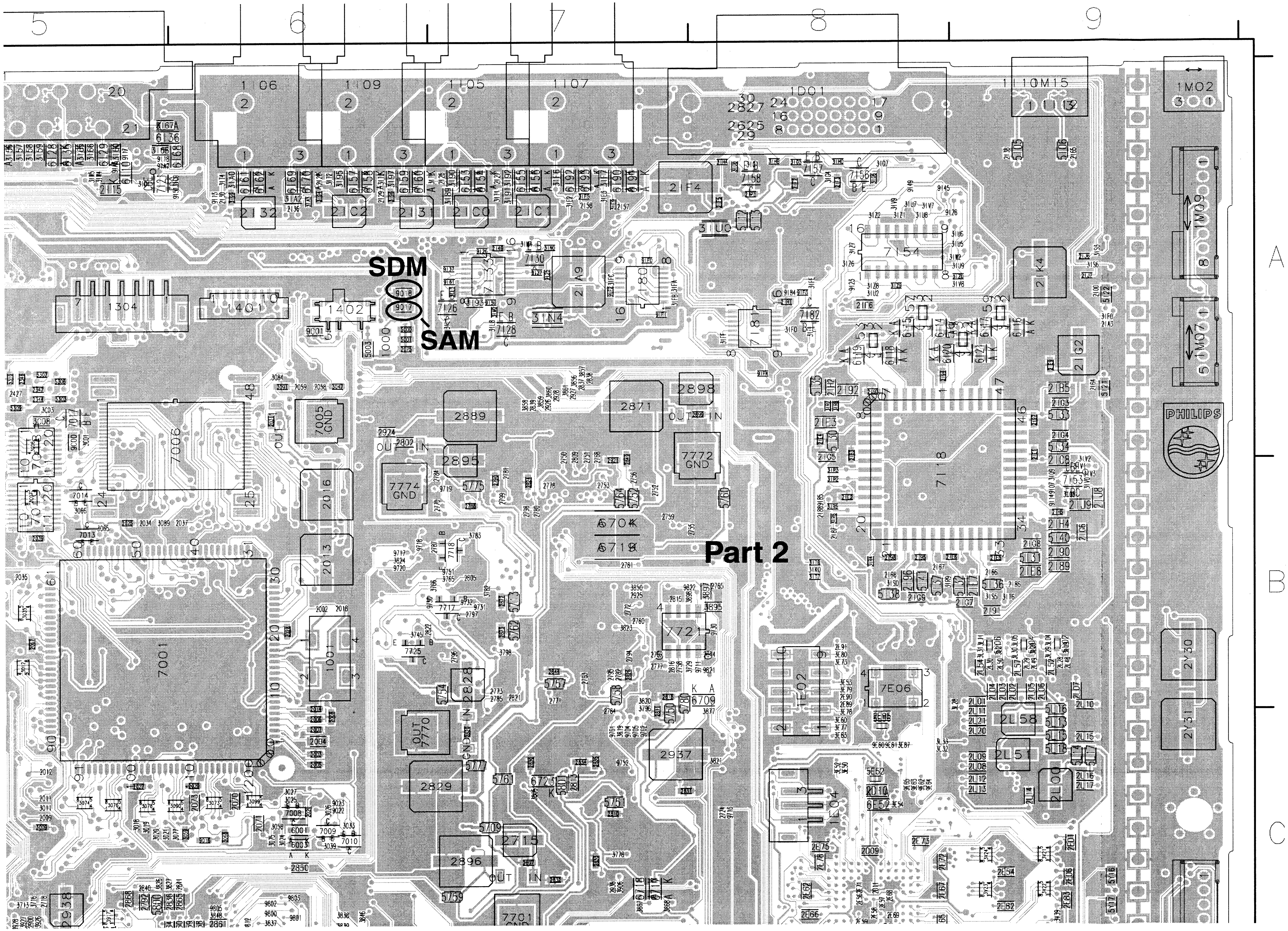
7PA6
7P09
1P06
1199
1306
1308
1305
1408
2413
5403
2377
2314
2425
2410
2414
2340
1P11
1P12
1P03
1P00
2P80
2P90
2PF1
2PC6
2179
21A5
21A0
21A1
21A6
21A2
2199

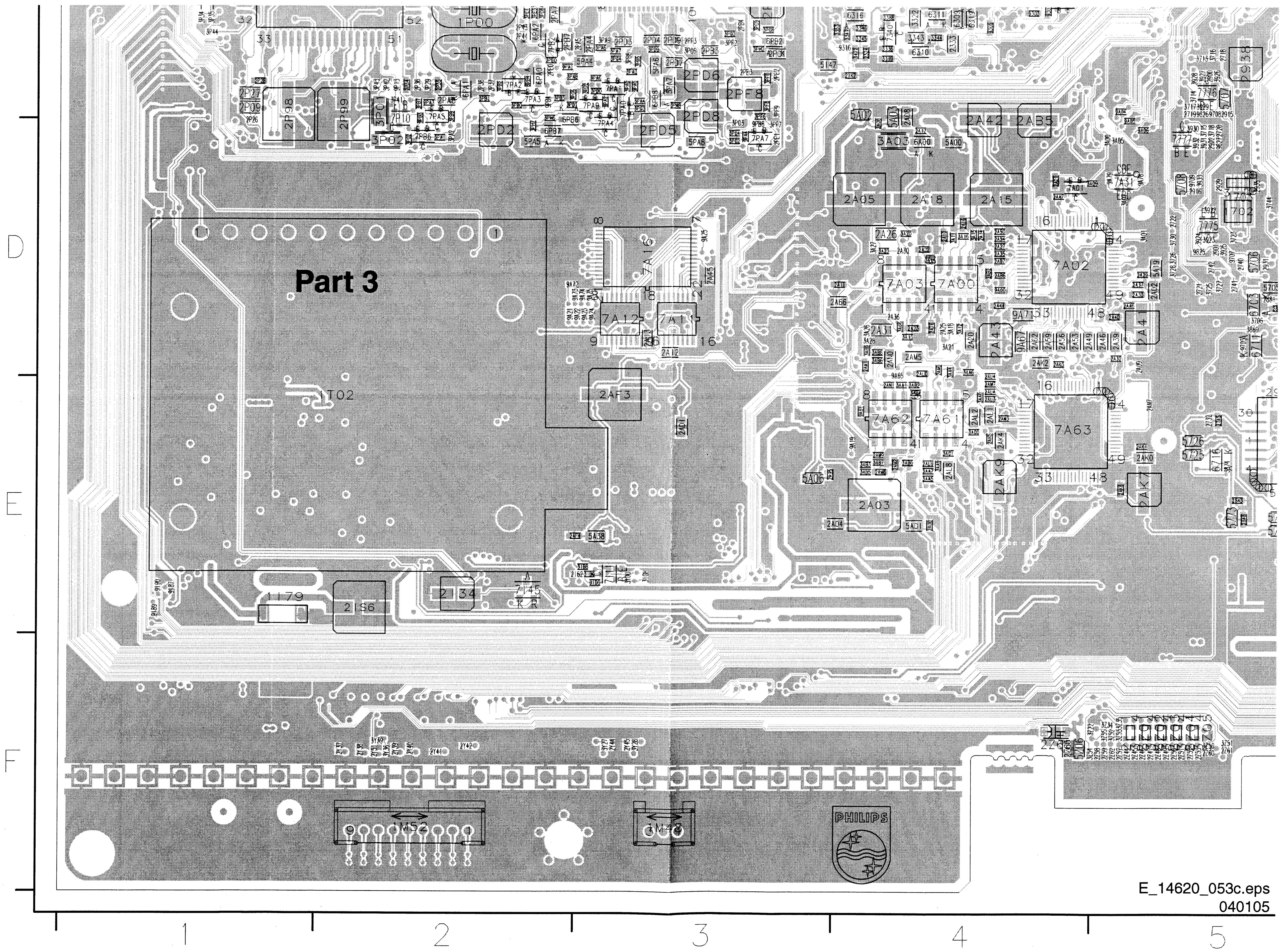
E_14620_053a.eps
040105

Layout SSB (Top Side Part 2)


5
6
7
8
9
A
B
C
SDM
SAM
Part 2
PHILIPS
1106
1109
1105
1107
1D01
1M02
1304
1401
1402
7006
7001
7118
7154
2889
2871
2898
7772
GND
7774
GND
7005
GND
2895
2016
2013
7721
2828
2829
2937
2896
2715
7701
7770
7E06
1E02
1E04
2Y30
2Y31
2L58
2L51
2IK4
2IG2
2IF4
2132
2IC2
2131
2IC0
2IC1

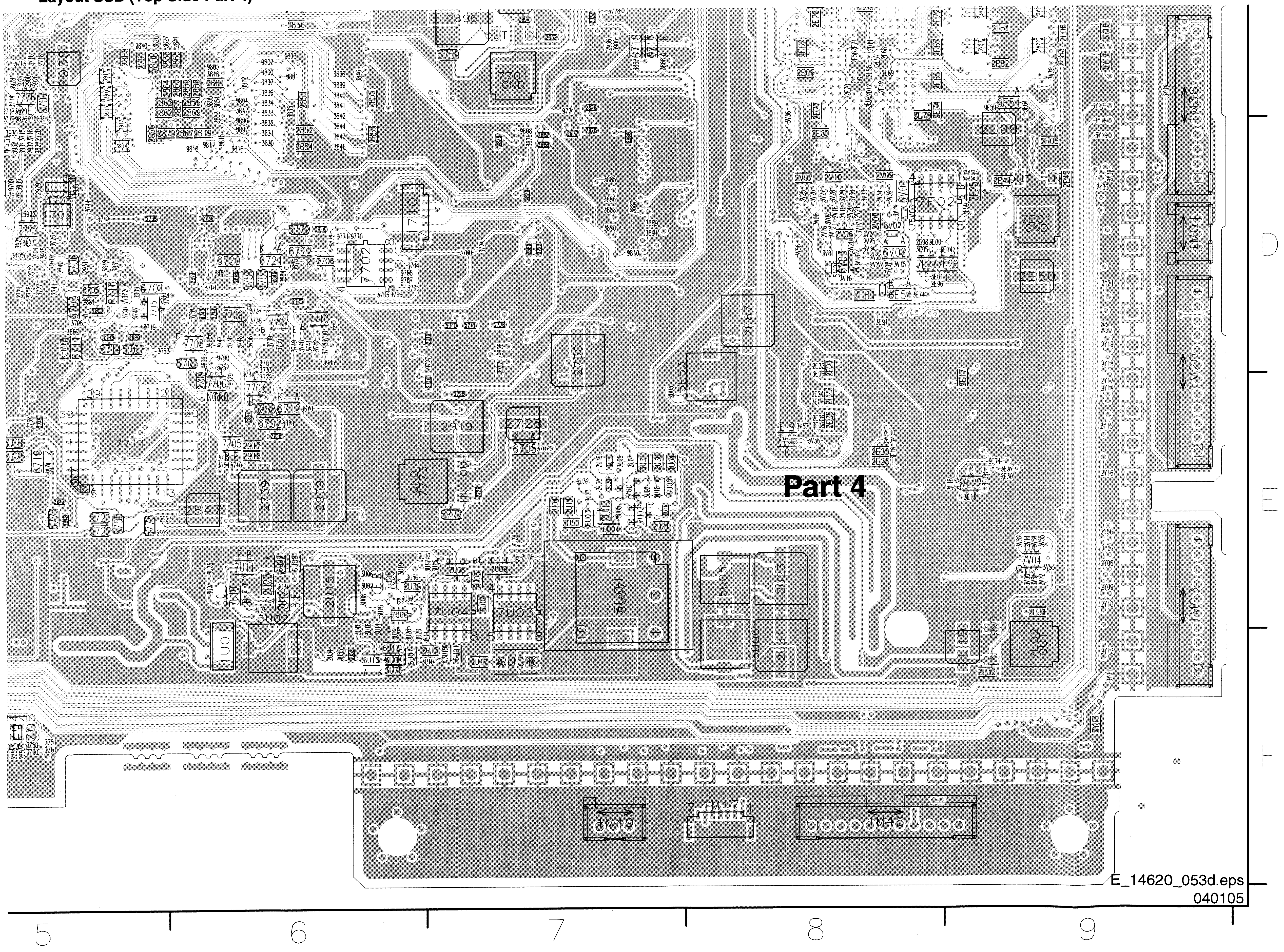
E_14620_053b.eps
040105

Layout SSB (Top Side Part 3)

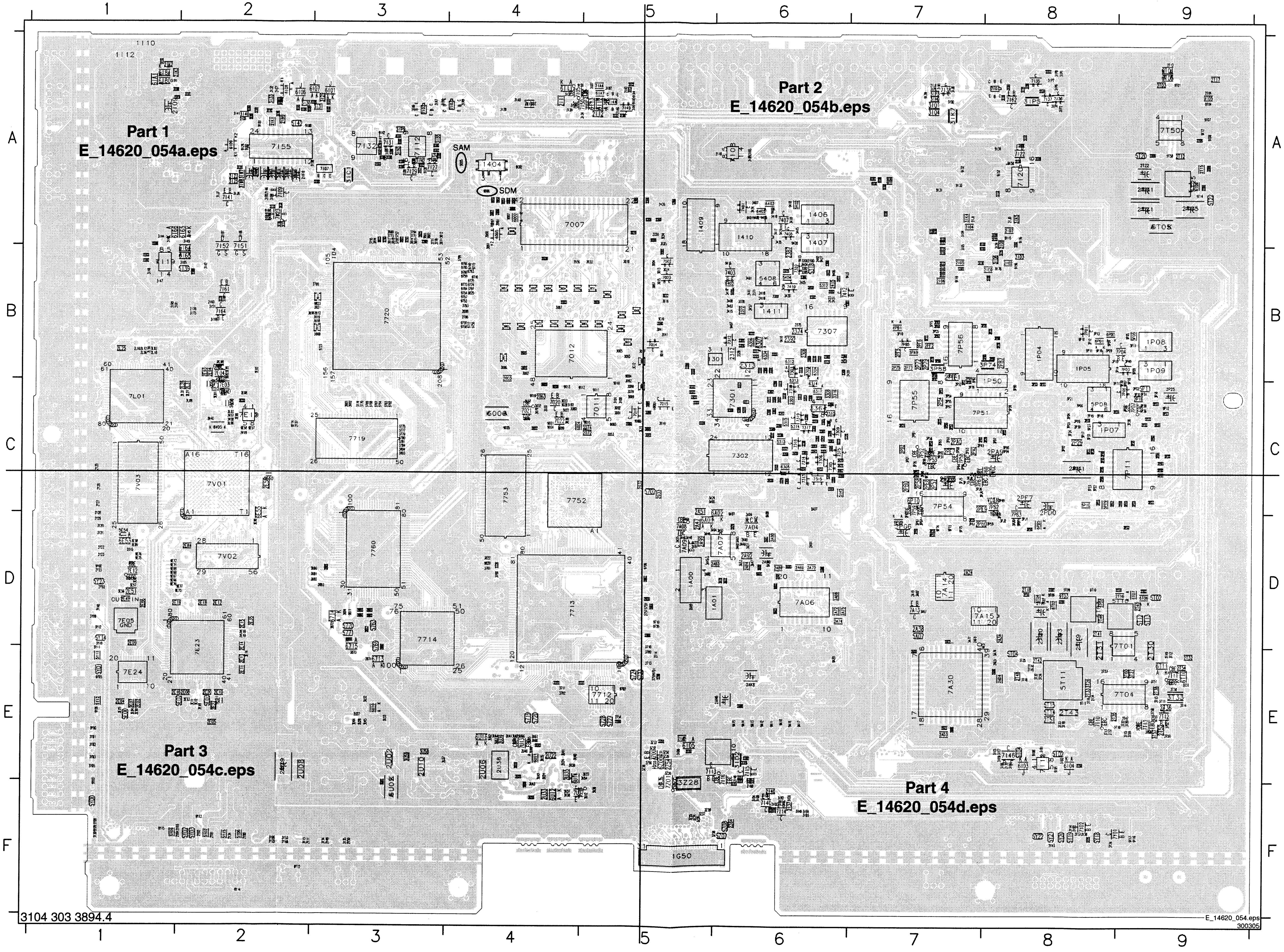

Part 3
1T02
1P00
2P98
2P99
3P01
3P02
7P10
2PD2
2PD5
2PD6
2PD8
2PF8
7A10
7A12
7A11
2AF3
2A05
2A18
2A15
2A42
2AB5
3A03
7A03
7A00
7A02
7A62
7A61
7A63
2A43
2A41
2AK9
2AK7
2A03
5A38
7145
1179
2IS6
1M52
1M48
PHILIPS
D
E
F
1
2
3
4
5

E_14620_053c.eps
040105

Layout SSB (Top Side Part 4)


Part 4
7711
7702
7701 GND
7773 GND
7E01 GND
7E02
2919
2728
2730
2739
2939
2847
2E87
5E53
5U01
5U05
2U23
5U06
2U31
2U15
7U04
7U03
1U01
5U02
7L02 OUT
2L19
1M36
1M01
1M20
1M03
1M49
1M17
1M46
2E99
2E50
6E51
E_14620_053d.eps
040105
D
E
F
5
6
7
8
9

Layout SSB (Bottom Side Overview)


Part 1
E_14620_054a.eps
Part 2
E_14620_054b.eps
Part 3
E_14620_054c.eps
Part 4
E_14620_054d.eps
SAM
SDM
1 2 3 4 5 6 7 8 9
A B C D E F
7155
7132
7112
1404
7007
7720
7012
7719
7011
6008
1409
1410
1406
1407
5408
1411
7307
7301
7302
7T50
6T05
7120
1P04
1P05
1P08
1P09
7P56
7P55
1P50
7P51
5P08
1P07
7P11
7P54
7L01
7V03
7V01
7V02
7E05
7E23
7E24
7753
7752
7760
7714
7713
7712
7A00
7A01
7A07
7A06
7A14
7A15
7A30
5T11
7T01
7T04
2038
3Z28
1G50
3104 303 3894.4
E_14620_054.eps
300305

Layout SSB Mapping (Bottom Side)

1301	B5	2812	B3	2I59	E8	2PF7	C8	3031	B5	3441	B6	3C12	B5	3IH1	A5	3P66	B8	3V18	C2	5Y15	F2	7712	E5	9015	C5	9I65	A3
1404	A4	2817	D3	2I60	F6	2PG2	C9	3032	C4	3445	A6	3E04	E1	3IH2	F6	3P67	B7	3V37	C2	5Y18	F8	7713	D4	9019	C4	9I66	A3
1406	A6	2823	A3	2I69	B2	2PG6	D7	3034	B4	3450	B6	3E05	E1	3IH4	F6	3P68	B7	3V38	C2	5Y19	F8	7714	D3	9021	C4	9I67	A3
1407	A6	2825	A3	2I70	B2	2T01	A9	3036	C4	3451	B6	3E11	E2	3IH7	A3	3P69	B7	3V40	C2	5Y20	F8	7719	C3	9024	C4	9I68	A2
1409	A5	2827	A3	2IA4	A5	2T02	D9	3037	C4	3452	B6	3E12	E2	3IH8	A8	3P70	B7	3Y00	E1	5Y21	F8	7720	B3	9025	C4	9I78	B8
1410	B6	2882	D3	2IB7	E6	2T03	D8	3038	C4	3453	C6	3E14	E2	3IHG	A7	3P71	C8	3Y01	E1	5Y22	F8	7752	C5	9308	C6	9I79	A3
1411	B6	2883	D3	2IB8	A1	2T04	A9	3040	B5	3454	C6	3E18	D2	3II0	A8	3P72	B8	3Y02	E1	5Y23	D1	7753	C4	9309	C6	9I81	A2
1A00	D5	2884	D3	2IB9	B2	2T05	A9	3041	B5	3455	C6	3E19	D2	3II1	A8	3P74	B7	3Y03	E1	5Z07	F6	7760	D3	9310	C6	9I88	A2
1A01	D5	2885	D3	2IC3	A3	2T06	A9	3042	C5	3456	B6	3E51	D1	3II2	A8	3P75	D7	3Y05	E1	5Z08	F6	7A04	D6	9311	C6	9I91	A2
1G50	F5	2892	E3	2IC5	B1	2T07	D8	3045	A4	3457	B6	3E55	D1	3II3	A8	3P76	C7	3Y06	F2	6002	A4	7A06	D6	9312	C6	9I92	A7
1P04	B8	2893	D3	2IC6	A2	2T09	A9	3046	A4	3459	C6	3E56	D1	3II5	A2	3P79	C8	3Y08	F1	6004	C4	7A07	D6	9313	C6	9I93	A7
1P05	C8	2894	D3	2IC7	A2	2T10	D9	3048	B5	3463	B6	3E57	D1	3II6	A2	3P80	C8	3Y09	D1	6005	A4	7A08	D5	9318	B6	9I94	A7
1P07	C8	2920	D5	2IE0	B8	2T11	D8	3049	B5	3465	C6	3E58	D1	3II7	A2	3P81	C7	3Y10	D1	6006	C4	7A09	D5	9319	B6	9I96	B8
1P08	B9	2932	C5	2IF0	A1	2T12	A9	3050	B5	3467	C6	3E69	C2	3II8	B2	3P82	B7	3Y11	E1	6303	B6	7A13	D7	9401	A6	9I98	A2
1P09	C9	2933	C5	2IF8	A2	2T13	A9	3051	B5	3468	B6	3E70	C2	3II9	B2	3P85	B8	3Y12	D1	6304	B6	7A14	D7	9402	A6	9I99	F6
1P50	C8	2A01	D6	2IF9	A2	2T14	D8	3052	B4	3470	C6	3E81	C2	3IJ2	A2	3P86	B7	3Y13	F2	6306	B6	7A15	D8	9403	A6	9IA2	A3
2003	B4	2A07	C6	2IG1	A8	2T15	A9	3053	C5	3471	C6	3E82	B2	3IJ3	A2	3P87	B7	3Y14	F8	6307	B6	7A30	E7	9404	B6	9IA4	A5
2010	C5	2A19	D7	2IH1	B1	2T16	D9	3054	B4	3700	D4	3E83	C2	3IJ4	A2	3P88	B7	3Y20	D1	6308	C6	7E03	B2	9405	A6	9IA5	A5
2017	B5	2A24	D7	2IH3	A5	2T17	A9	3055	B4	3702	E4	3E84	B2	3IJ6	A2	3P92	C8	3Y21	D1	6312	B6	7E04	C2	9406	B6	9IB1	A7
2019	A5	2A34	D8	2IH6	A2	2T18	D8	3056	B4	3709	E5	3E85	B2	3IJ7	A2	3P94	C8	3Y22	D1	6313	B6	7E05	D1	9407	B6	9IB2	A7
2022	C4	2A38	D7	2IH7	A2	2T19	D8	3057	B4	3710	D5	3E86	B2	3IJ8	A7	3P95	C8	3Y23	D1	6314	C6	7E10	C2	9410	B6	9IB3	A2
2023	B4	2A47	D5	2IH8	A2	2T20	D8	3061	B4	3711	E4	3E88	D2	3IK4	A7	3P96	C7	3Y24	F8	6317	C6	7E12	D1	9413	B6	9ID1	A3
2024	B4	2A51	C5	2IH9	A2	2T21	A9	3062	B4	3757	A3	3E89	D1	3IK5	A8	3P97	D7	3Y25	F8	6334	B6	7E23	E2	9415	B6	9ID2	A3
2026	B5	2A64	D6	2IJ0	A8	2T22	A9	3064	C5	3758	E5	3E90	E1	3IK7	A7	3P98	C7	3Y30	F1	6402	A6	7E24	E1	9418	A6	9ID3	A2
2033	B5	2A69	D6	2IJ1	A7	2T30	E9	3067	B5	3759	D5	3I01	A8	3IK9	B2	3P99	C7	3Y33	F2	6403	B6	7I01	A8	9420	A6	9ID4	A2
2036	B4	2A70	D6	2IJ4	A8	2T31	E8	3069	C5	3761	D4	3I02	B8	3IN1	A7	3PC0	C8	3Y34	F3	6405	A6	7I02	A3	9421	C6	9ID5	A2
2038	B4	2A72	D6	2IJ5	E5	2T32	E9	3070	C4	3762	C3	3I03	B8	3IN2	A3	3PC5	B7	3Y35	F3	6713	E3	7I03	A4	9422	B6	9ID6	A2
2040	B4	2A74	D6	2IK1	A2	2T33	E8	3072	B4	3763	C3	3I04	A7	3IN3	A3	3PD7	C8	3Y37	F8	6714	D3	7I04	A4	9427	B6	9ID7	A2
2041	B5	2A75	D6	2IK2	A1	2T34	E8	3079	C5	3764	C3	3I05	B7	3IN8	A3	3PF5	B7	3Y38	F8	6715	E3	7I05	A5	9701	E5	9ID8	A2
2052	A4	2A79	D6	2IK3	A1	2T35	E8	3080	C4	3767	C3	3I06	B8	3IO5	A3	3PG1	C7	3Y40	D1	6A01	C5	7I07	A3	9702	E5	9ID9	A2
2053	A4	2A80	D6	2IK6	C6	2T36	E9	3081	B4	3768	C3	3I07	A5	3IO6	A3	3PG7	D7	3Z23	E5	6A02	C6	7I08	A6	9706	D5	9P04	B8
2054	A4	2A81	D6	2IL0	A7	2T37	E8	3082	B4	3769	C3	3I08	A8	3IP0	A8	3PG8	C7	3Z24	F5	6E53	D1	7I09	A2	9710	D5	9P05	B9
2055	A4	2A83	D6	2IN8	A2	2T38	E9	3083	B4	3770	C3	3I09	A8	3IP1	A8	3PH5	D8	3Z25	F5	6E55	D2	7I10	E8	9712	B4	9P07	C9
2056	A4	2A88	D6	2IN9	A2	2T40	D9	3085	B5	3771	A3	3I10	B7	3IP2	A8	3PH9	D7	3Z26	F5	6E56	C2	7I12	A3	9714	C2	9P09	B9
2057	A4	2A89	D6	2IR0	A3	2T41	D8	3086	B5	3772	A3	3I11	B7	3IP3	A7	3PI0	B7	3Z28	E5	6I01	A3	7I13	E5	9715	B4	9P10	B8
2060	A4	2A90	D6	2L18	B1	2T42	E8	3087	B4	3773	A3	3I12	B7	3IP4	A8	3PJ0	D8	3Z29	E5	6I03	E8	7I14	F6	9716	B4	9P11	B8
2061	A4	2A91	D5	2L25	B1	2T43	E8	3088	C5	3774	C3	3I13	B7	3IP5	A8	3PJ1	D8	3Z30	E5	6I04	E8	7I15	E6	9723	B3	9P12	C9
2063	C4	2A92	D6	2L26	C2	2T44	E8	3092	C5	3775	C3	3I14	B7	3IP6	A8	3PJ2	D8	3Z31	E5	6I05	E5	7I16	E6	9726	D5	9P16	B8
2068	C5	2A99	D5	2L27	C2	2T45	E8	3093	B5	3776	A3	3I15	B7	3IP7	A8	3PJ3	D8	3Z32	E5	6I06	A2	7I19	B1	9740	B4	9P17	C8
2072	C5	2AA5	D6	2L31	C2	2T46	D8	3094	C5	3777	C3	3I16	B7	3IP8	A7	3PJ4	C7	3Z33	E5	6I07	A3	7I20	A8	9753	B4	9P18	B9
2074	C5	2AA9	D5	2L32	C2	2T47	E9	3095	C5	3779	C3	3I17	A7	3IP9	A3	3PJ5	C7	3Z36	E5	6I08	A2	7I22	A8	9754	B4	9P20	C8
2300	B6	2AB0	D5	2L56	B1	2T48	E8	3096	C5	3780	C3	3I18	A7	3IQ0	A7	3PJ6	C7	3Z37	F5	6I09	A2	7I23	A2	9755	B4	9P21	C8
2302	B6	2AB3	D6	2L59	B1	2T49	E9	3097	A4	3781	C3	3I23	A8	3IQ1	A7	3PJ7	C7	3Z38	F6	6I11	A4	7I27	A3	9756	B4	9P22	C9
2303	C6	2AB4	D6	2L60	B1	2T50	E9	3098	A4	3784	C3	3I24	A8	3IQ4	A7	3PJ8	C7	3Z39	F5	6I12	A5	7I29	A3	9757	B4	9P23	C8
2304	C6	2AB8	D6	2P01	C8	2T51	E8	3100	C5	3792	A3	3I25	B8	3IQ5	B2	3PJ9	C7	3Z56	E5	6I13	A5	7I31	A3	9758	B4	9P24	C9
2306	B6	2AC1	E7	2P11	C9	2T52	E9	3101	C5	3793	B4	3I28	A4	3IQ6	A2	3T03	A9	5304	A5	6I63	B2	7I32	A3	9759	B4	9P25	C9
2307	C6	2AD0	E7	2P12	C9	2T53	E8	3102	B4	3794	A3	3I29	A3	3IQ7	A2	3T04	D8	5305	A5	6I64	A2	7I35	A8	9760	B4	9P28	C8
2308	C6	2AD3	E7	2P14	C9	2T54	E9	3103	C4	3795	A3	3I30	A2	3IR0	B1	3T05	A9	5308	A5	6I65	A1	7I36	A8	9763	B4	9P30	C9
2309	B6	2AD4	E8	2P15	C9	2U01	F3	3300	B6	3797	B4	3I31	A3	3IR1	B1	3T06	A9	5312	B6	6I66	A2	7I37	A8	9764	B4	9P31	C7
2310	B6	2AD5	E7	2P16	C9	2U02	E3	3301	B6	3799	B4	3I32	A2	3IS1	B2	3T10	E9	5313	C6	6I80	A1	7I38	A7	9765	B4	9P32	C7
2311	B6	2AD6	E8	2P18	C8	2U06	E4	3303	B6	3800	A3	3I33	A2	3IS4	A3	3T11	E9	5314	C6	6I81	A1	7I40	F6	9766	B4	9P52	C7
2312	B6	2AE2	D7	2P23	C8	2U08	F2	3305	C6	3801	A3	3I34	A4	3IT5	B2	3T12	E9	5315	C6	6IA1	A1	7I41	A2	9773	B4	9P53	C7
2313	B6	2AE3	D8	2P24	C8	2U10	F3	3307	C6	3802	A3	3I36	A4	3IT9	A8	3T13	E9	5318	B6	6IA7	A5	7I44	A5	9774	B4	9P54	D7
2319	C6	2AE5	E8	2P25	C9	2U19	E4	3308	C6	3803	C3	3I37	A4	3IU1	A2	3T14	E9	5401	B6	6P00	B8	7I46	E8	9775	B4	9P69	B7
2320	B5	2AF0	D7	2P29	C8	2U22	E4	3310	C6	3804	C3	3I38	A4	3IU3	A1	3T15	E9	5402	A6	6P01	B8	7I49	A5	9811	D3	9P71	B7
2321	C5	2AK8	E6	2P30	C8	2U24	E4	3311	C6	3811	A3	3I40	A2	3IV4	A2	3T16	E8	5404	B6	6P10	C7	7I50	A5	9820	D4	9P73	D7
2323	C5	2AN5	E6	2P31	C9	2U25	E4	3312	C6	3812	A3	3I41	A2	3IV5	A2	3T17	E8	5408	B6	6PB1	B7	7I51	B2	9823	B3	9P74	D7
2325	B6	2AN6	E6	2P32	D9	2U26	F4	3313	C6	3814	A3	3I42	B2	3IV6	A2	3T18	E8	5702	C5	6PB5	D8	7I52	B2	9A00	D6	9P75	D7
2326	C6	2C00	A5	2P33	C9	2U27	E3	3314	C6	3815	A3	3I44	A1	3IW1	A1	3T19	E8	5719	E4	6PB9	D7	7I55	A2	9A01	D6	9PB7	D8
2328	C5	2C02	B5	2P45	C9	2U28	E3	3315	B6	3817	A3	3I45	A2	3IW3	A6	3T20	E9	5720	E4	6T01	A9	7I61	B2	9A02	D6	9T01	A9
2335	C6	2D04	D1	2P46	C9	2U29	F2	3316	C6	3818	A3	3I46	A1	3IW7	A2	3T22	E9	5723	E5	6T02	D8	7I62	A8	9A03	D6	9T02	D8
2337	C6	2D15	D1	2P47	C8	2U33	F4	3319	C6	3822	D4	3I47	B1	3IW8	A2	3T23	E8	5724	E5	6T03	A9	7I64	B2	9A07	D6	9T03	D8
2338	C6	2E02	E1	2P49	C8	2U35	E4	3323	B6	3825	B4	3I48	B1	3IW9	A6	3T24	E8	5727	E5	6T04	D8	7L01	B1	9A08	D6	9T04	A9
2341	C6	2E04	E1	2P51	C8	2U37	E3	3324	B6	3871	E3	3I49	A2	3IZ3	A2	3T25	E8	5728	E5	6T05	A9	7P01	B8	9A10	E6	9T05	A9
2342	C6	2E05	E2	2P52	C7	2U38	E4	3325	C6	3872	D3	3I85	A3	3IZ4	A2	3T26	E8	5763	D3	6T06	D9	7P03	B9	9A11	E6	9T06	D8
2343	C6	2E07	E1	2P53	C7	2U39	E4	3326	B6	3873	E3	3I98	A5	3IZ5	A2	3T27	E9	5769	E3	6T07	D9	7P04	B9	9A12	E6	9T07	A9
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Personal Notes:

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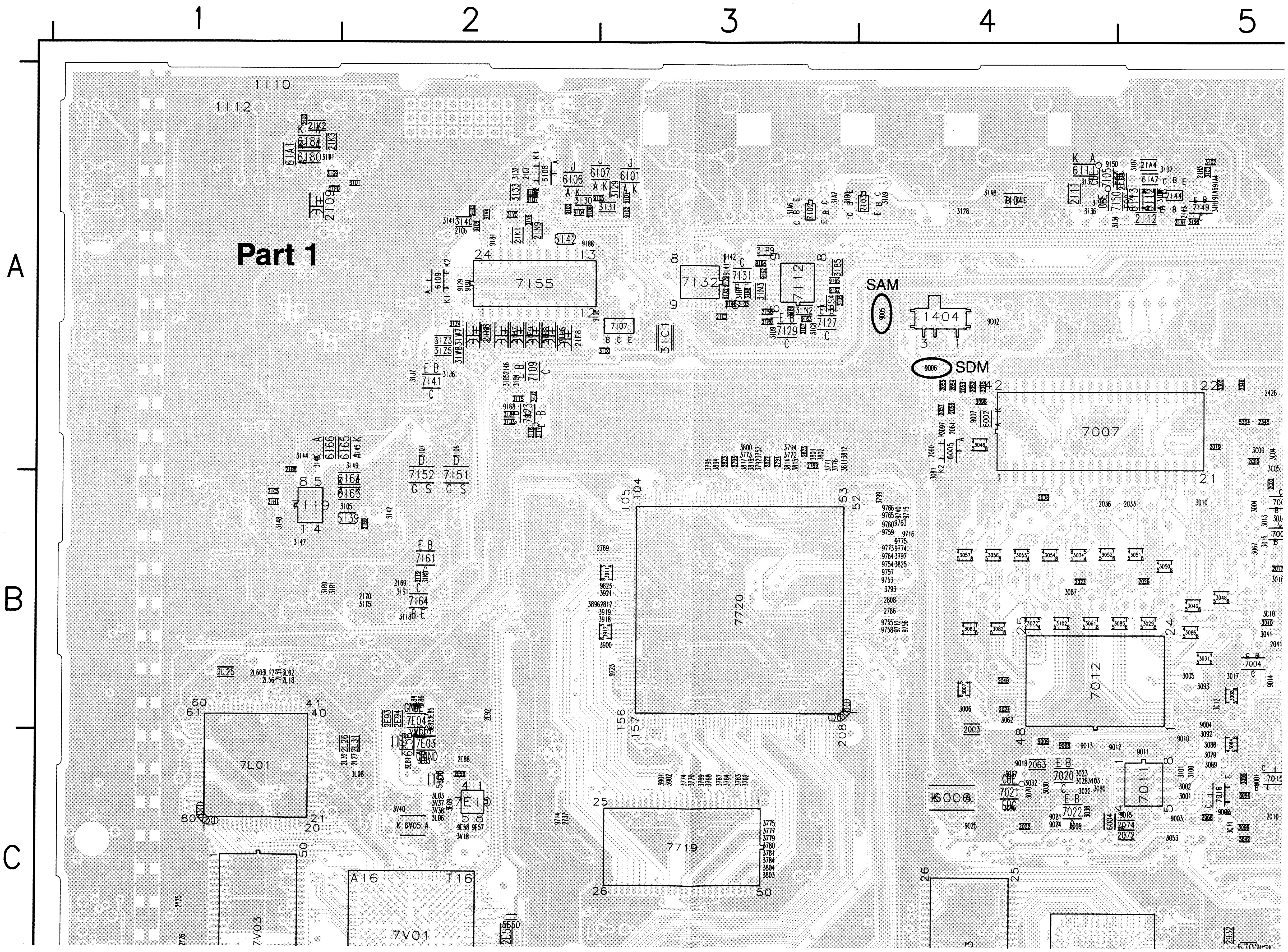
Layout SSB (Bottom Side Part 1)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SDM
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A16
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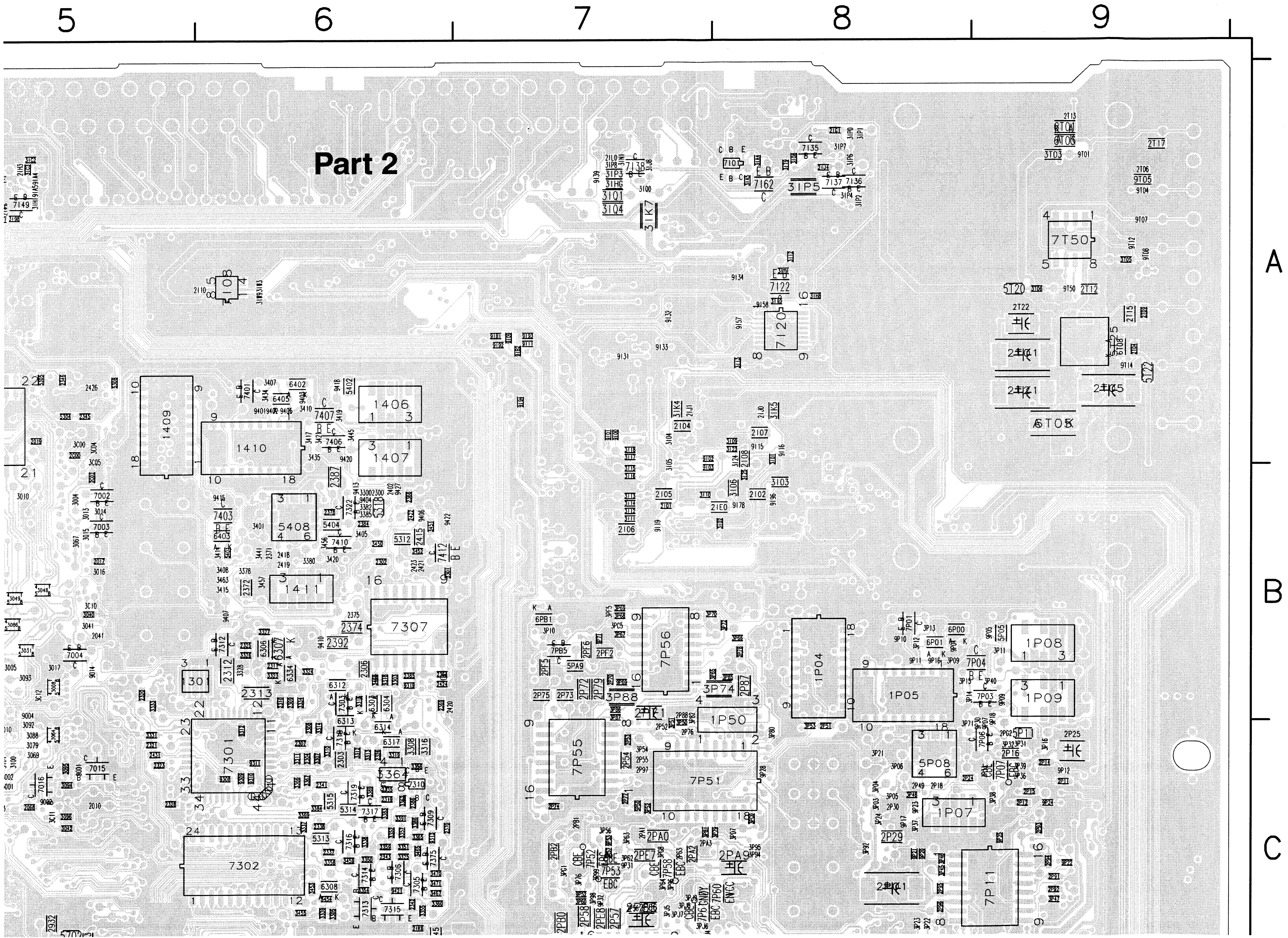
Layout SSB (Bottom Side Part 2)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C
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7P56
7P55
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1P04
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1P08
1P09
5P08
1P07
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6T05

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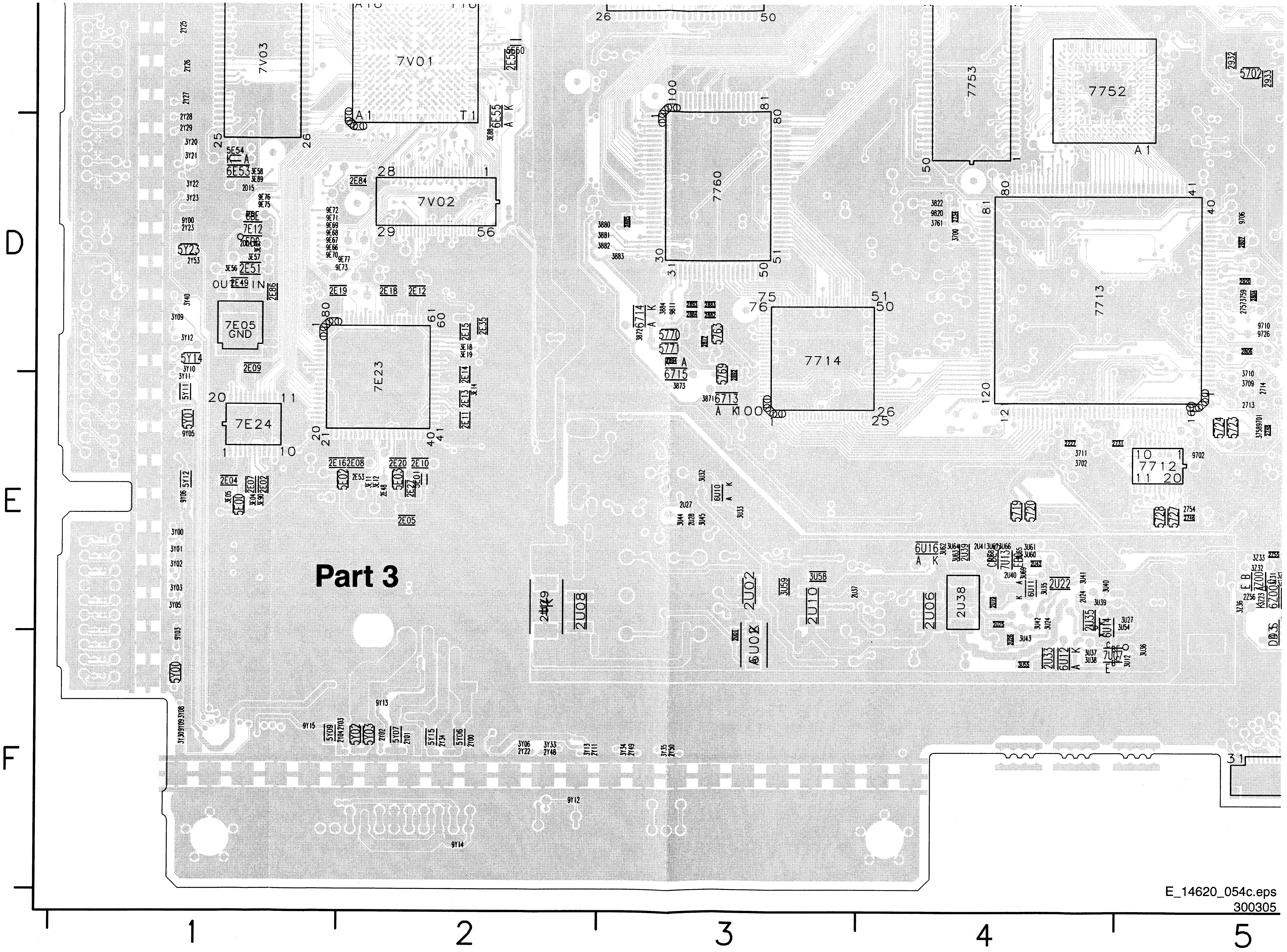
Layout SSB (Bottom Side Part 3)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2U02
2U10
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E
F
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3
4
5

E_14620_054c.eps
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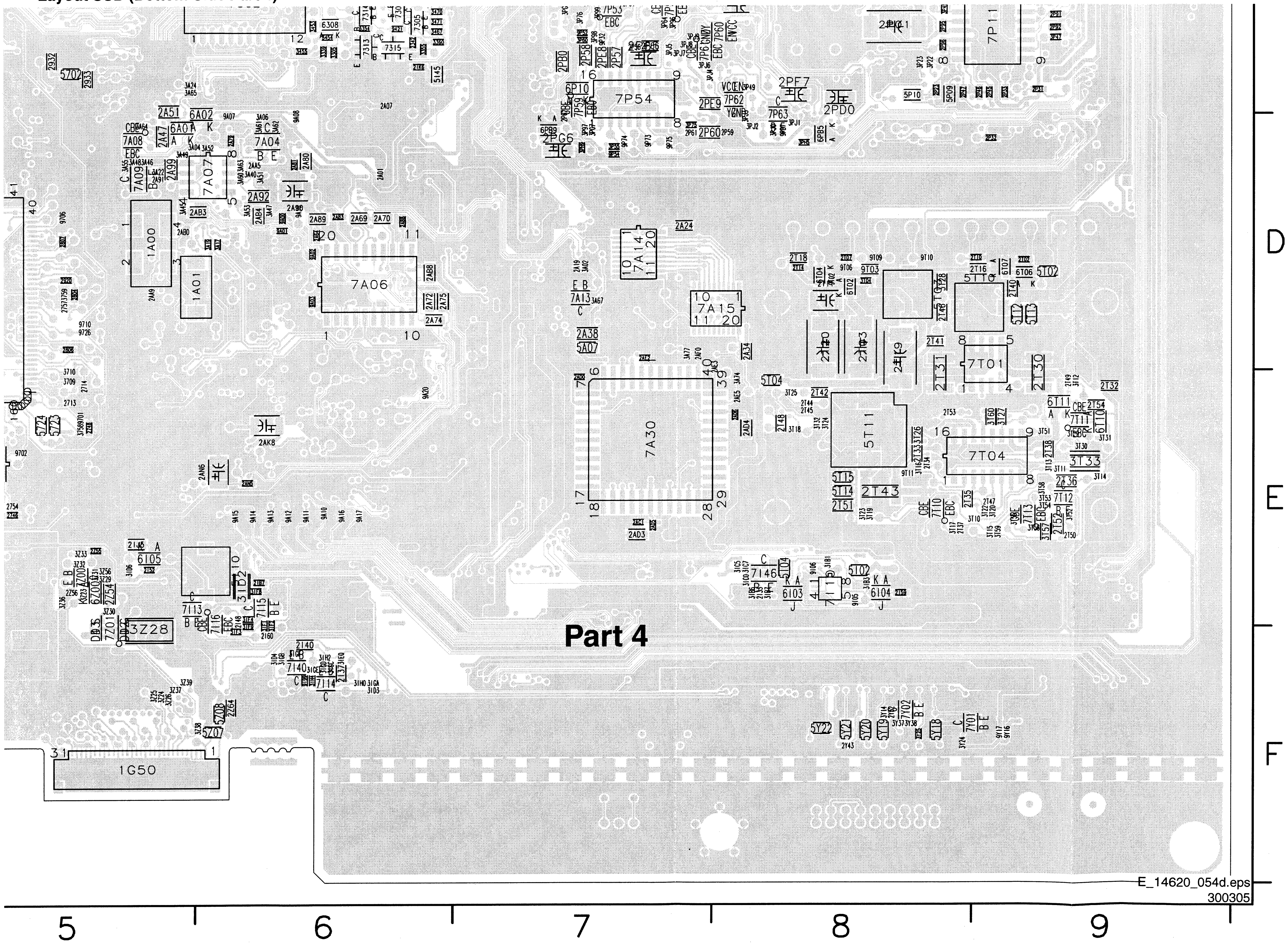
Layout SSB (Bottom Side Part 4)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7T11
7T12
7T13
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7146
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7Z01
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5708
7Y01
7Y02
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2PE9
2P60
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2T30
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2T33
2T36
5T04
5T02
5T10
5T14
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2A70
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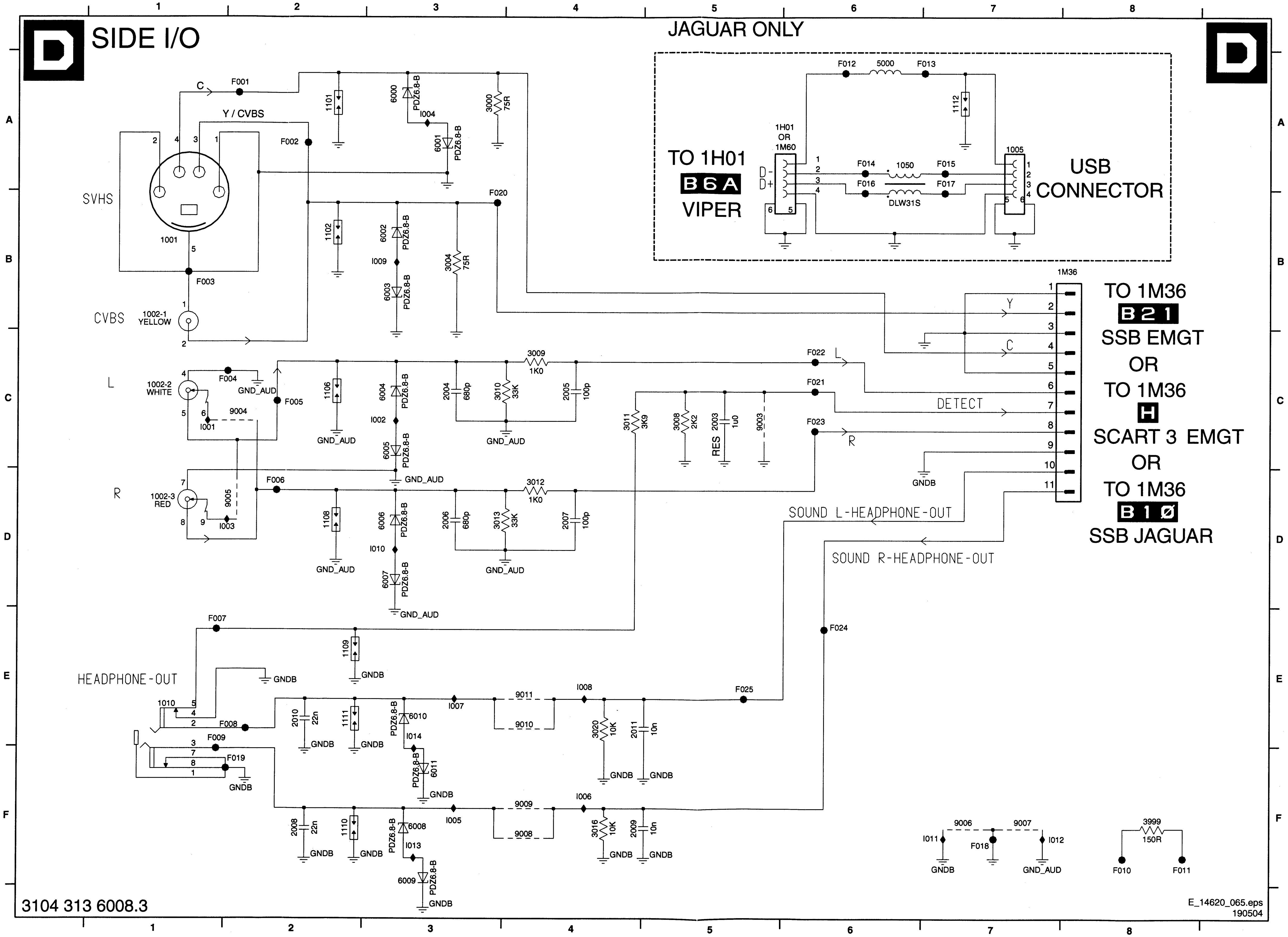
Side I/O Panel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JAGUAR ONLY
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1102
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6001
6002
6003
PDZ6.8-B
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I009
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75R
3004
75R
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TO 1H01
B6A
VIPER
1H01
OR
1M60
D-
D+
F012
5000
F013
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1M36
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C
DETECT
L
R
GNDB
F022
F021
F023
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B21
SSB EMGT
OR
TO 1M36
H
SCART 3 EMGT
OR
TO 1M36
B10
SSB JAGUAR
L
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WHITE
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R
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RES
9003
SOUND L-HEADPHONE-OUT
SOUND R-HEADPHONE-OUT
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F025
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HEADPHONE-OUT
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F019
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I008
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10K
2011
10n
2008
22n
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6008
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6009
I005
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2009
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150R
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1002-3	D1
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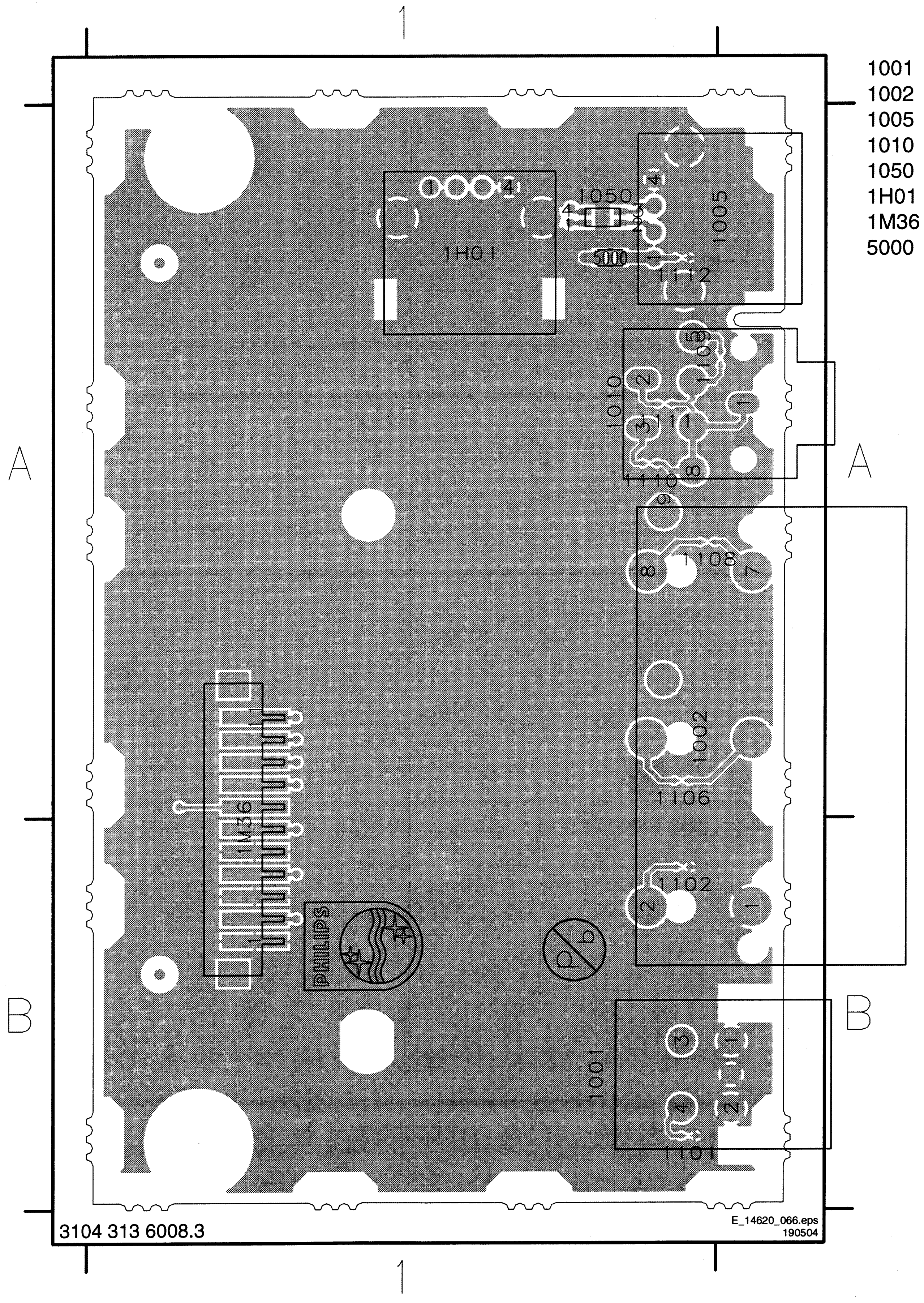
Layout Side I/O Panel (Top Side)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190504

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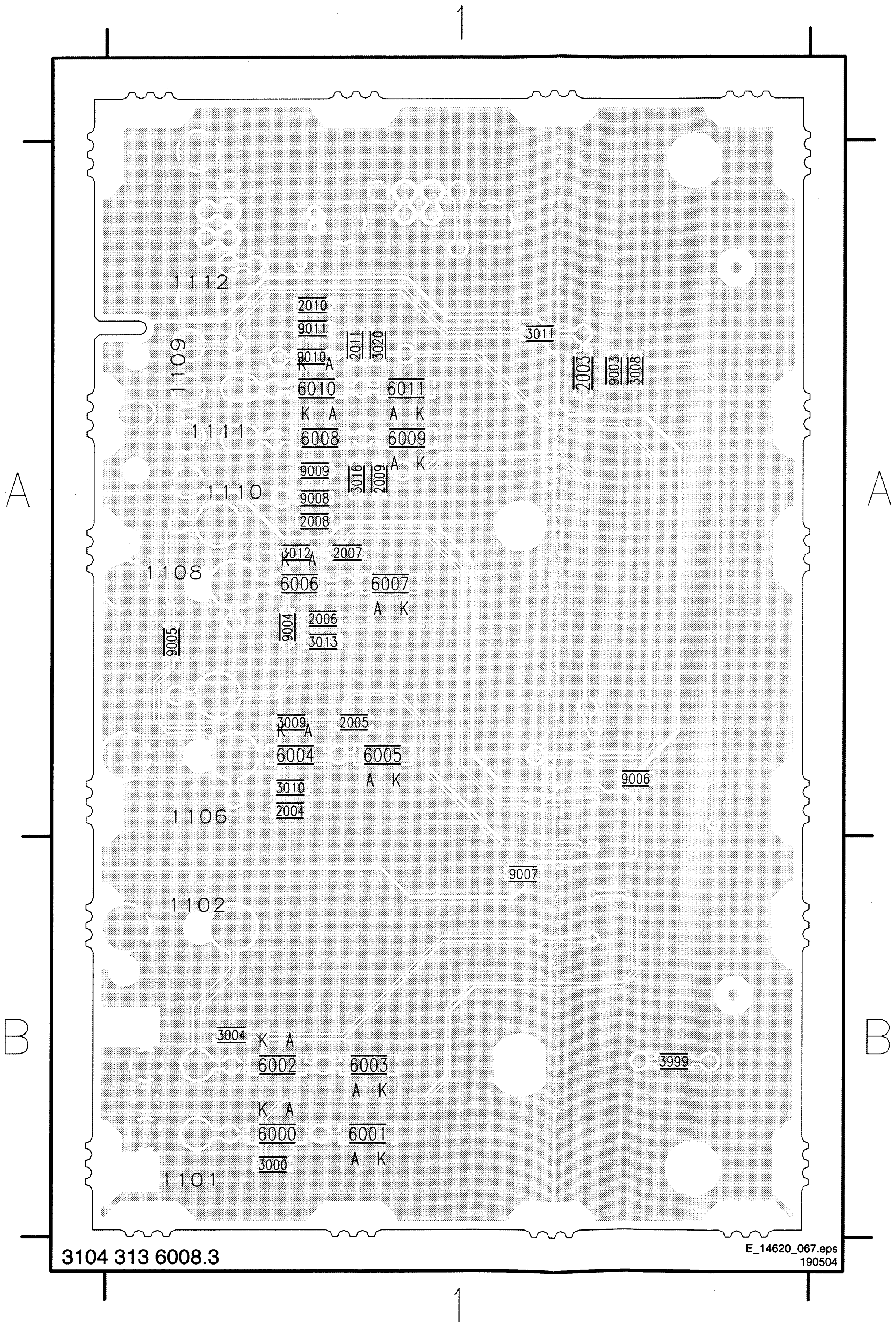
Layout Side I/O Panel (Bottom Side)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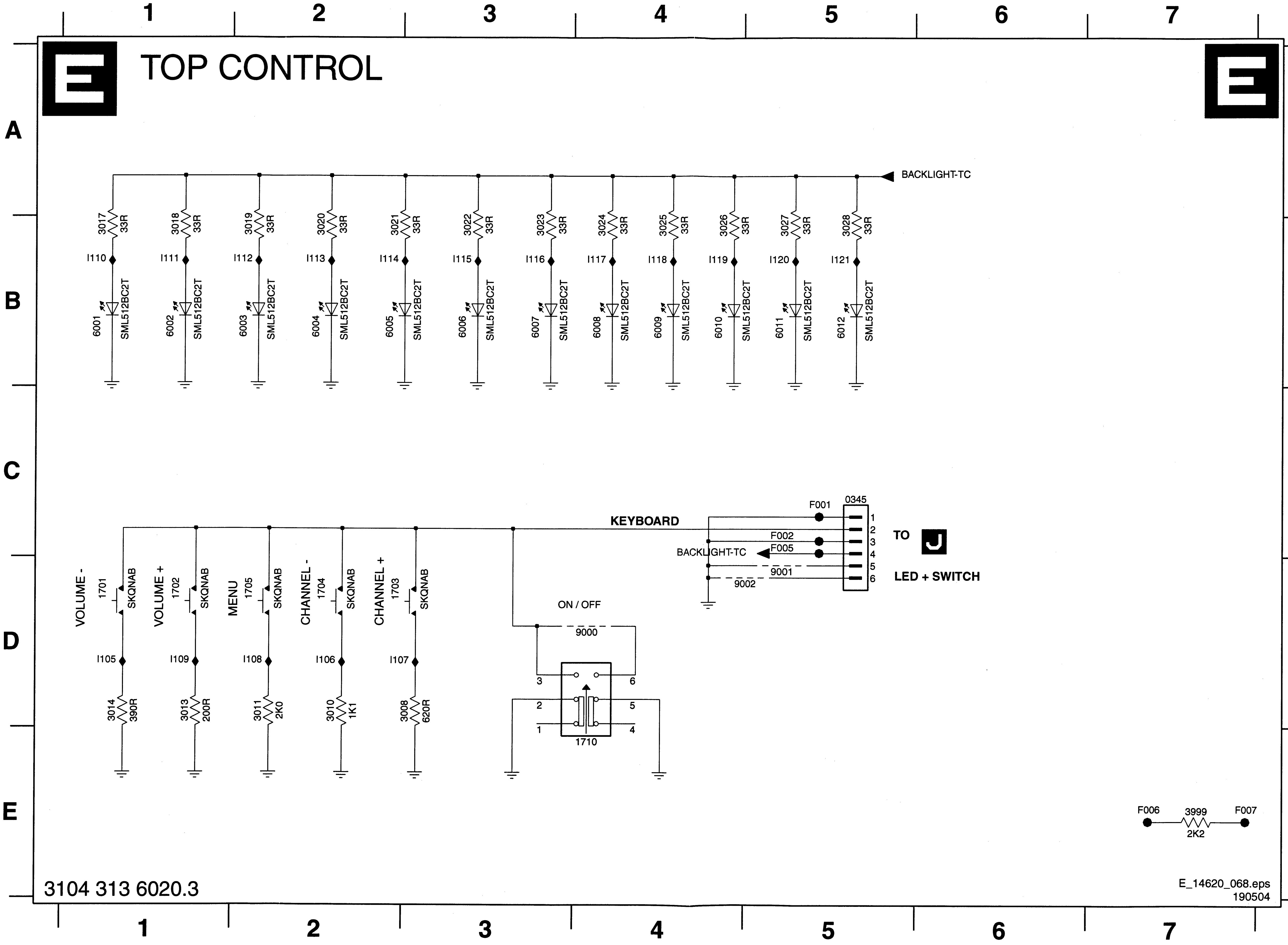
6010	A1
6011	A1
9003	A1
9004	A1
9005	A1
9006	A1
9007	B1
9008	A1
9009	A1
9010	A1
9011	A1

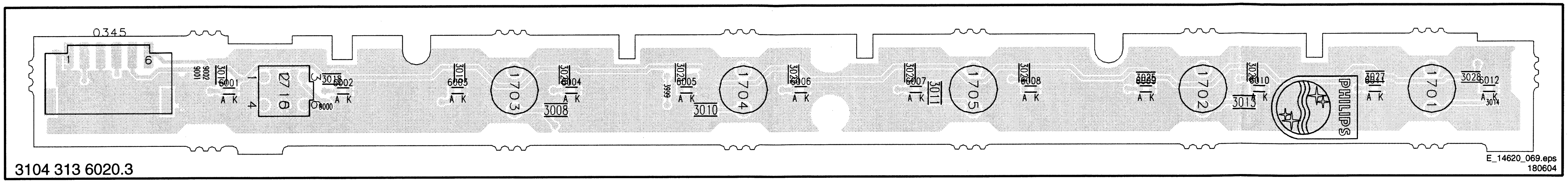
Top Control Panel


E
TOP CONTROL
E
1 2 3 4 5 6 7
A B C D E
BACKLIGHT-TC
3017 33R
3018 33R
3019 33R
3020 33R
3021 33R
3022 33R
3023 33R
3024 33R
3025 33R
3026 33R
3027 33R
3028 33R
I110 I111 I112 I113 I114 I115 I116 I117 I118 I119 I120 I121
6001 SML512BC2T
6002 SML512BC2T
6003 SML512BC2T
6004 SML512BC2T
6005 SML512BC2T
6006 SML512BC2T
6007 SML512BC2T
6008 SML512BC2T
6009 SML512BC2T
6010 SML512BC2T
6011 SML512BC2T
6012 SML512BC2T
KEYBOARD
F001
0345
F002
F005
BACKLIGHT-TC
9001
9002
1 2 3 4 5 6
TO
J
LED + SWITCH
VOLUME -
1701 SKQNAB
VOLUME +
1702 SKQNAB
MENU
1705 SKQNAB
CHANNEL -
1704 SKQNAB
CHANNEL +
1703 SKQNAB
I105 I109 I108 I106 I107
3014 390R
3013 200R
3011 2K0
3010 1K1
3008 620R
ON / OFF
9000
1710
F006
3999
2K2
F007
3104 313 6020.3
E_14620_068.eps
190504

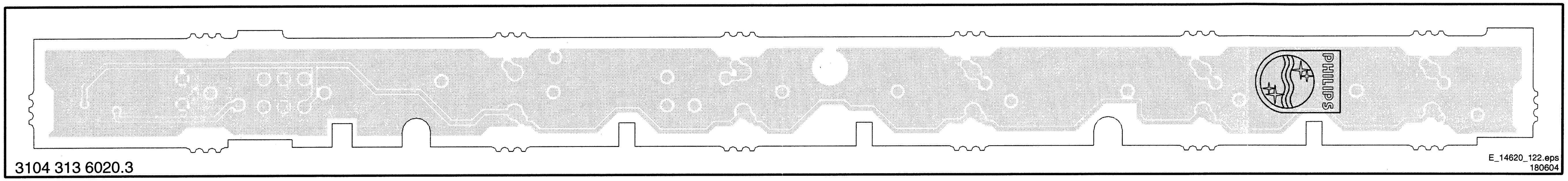
0345	C5
1701	D1
1702	D1
1703	D2
1704	D2
1705	D2
1710	E4
3008	D3
3010	D2
3011	D2
3013	D1
3014	D1
3017	B1
3018	B1
3019	B2
3020	B2
3021	B2
3022	B3
3023	B3
3024	B4
3025	B4
3026	B4
3027	B5
3028	B5
3999	E7
6001	B1
6002	B1
6003	B2
6004	B2
6005	B2
6006	B3
6007	B3
6008	B4
6009	B4
6010	B4
6011	B5
6012	B5
9000	D4
9001	D5
9002	D5
F001	C5
F002	C5
F005	C5
F006	E7
F007	E7
I105	D1
I106	D2
I107	D2
I108	D2
I109	D1
I110	B1
I111	B1
I112	B2
I113	B2
I114	B2
I115	B3
I116	B3
I117	B4
I118	B4
I119	B4
I120	B5
I121	B5

Layout Top Control Panel (Top Side)

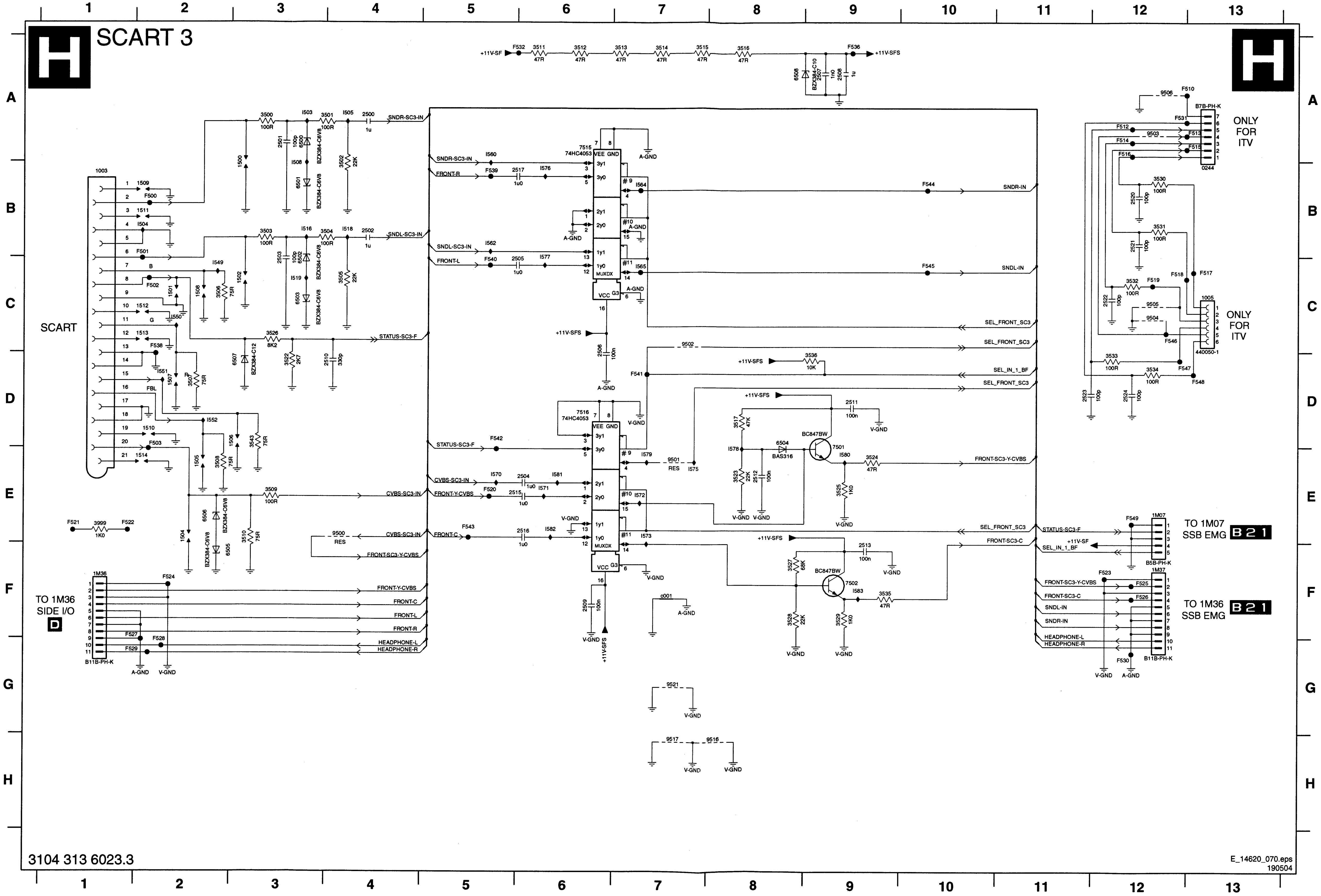
0345 1701 1702 1703 1704 1705 1710 3008 3010 3011 3013 3014 3017 3018 3019 3020 3021 3022 3023 3024 3025 3026 3027 3028 3999 6001 6002 6003 6004 6005 6006 6007 6008 6009 6010 6011 6012 9000 9001 9002


0345
1
6
9002
9001
3017
6001
A K
1
4
3
0716
3018
6002
8000
3015
6003
3020
6004
3008
1703
3021
6005
3999
3010
1704
3022
6006
3023
6007
3011
1705
3024
6008
3025
6009
1702
3026
6010
3013
PHILIPS
3027
6011
1701
3028
6012
3014
3104 313 6020.3
E_14620_069.eps
180604

Layout Top Control Panel (Bottom Side)


PHILIPS
3104 313 6020.3
E_14620_122.eps
180604

SCART 3 Panel


H
SCART 3
SCART
1003
ONLY FOR ITV
ONLY FOR ITV
TO 1M07 SSB EMG B21
TO 1M36 SSB EMG B21
TO 1M36 SIDE I/O D
74HC4053
7515
7516
MUXDX
BC847BW
7501
7502
BAS316
+11V-SF
+11V-SFS
A-GND
V-GND
SNDR-SC3-IN
SNDL-SC3-IN
STATUS-SC3-F
CVBS-SC3-IN
FRONT-SC3-Y-CVBS
FRONT-R
FRONT-L
FRONT-C
FRONT-Y-CVBS
SNDR-IN
SNDL-IN
SEL_FRONT_SC3
SEL_IN_1_BF
FRONT-SC3-C
HEADPHONE-L
HEADPHONE-R
B7B-PH-K
0244
1005
440050-1
1M07
B5B-PH-K
1M37
B11B-PH-K
1M36
BZX384-C6V8
BZX384-C12
BZX384-C10
RES
1 2 3 4 5 6 7 8 9 10 11 12 13
A B C D E F G H

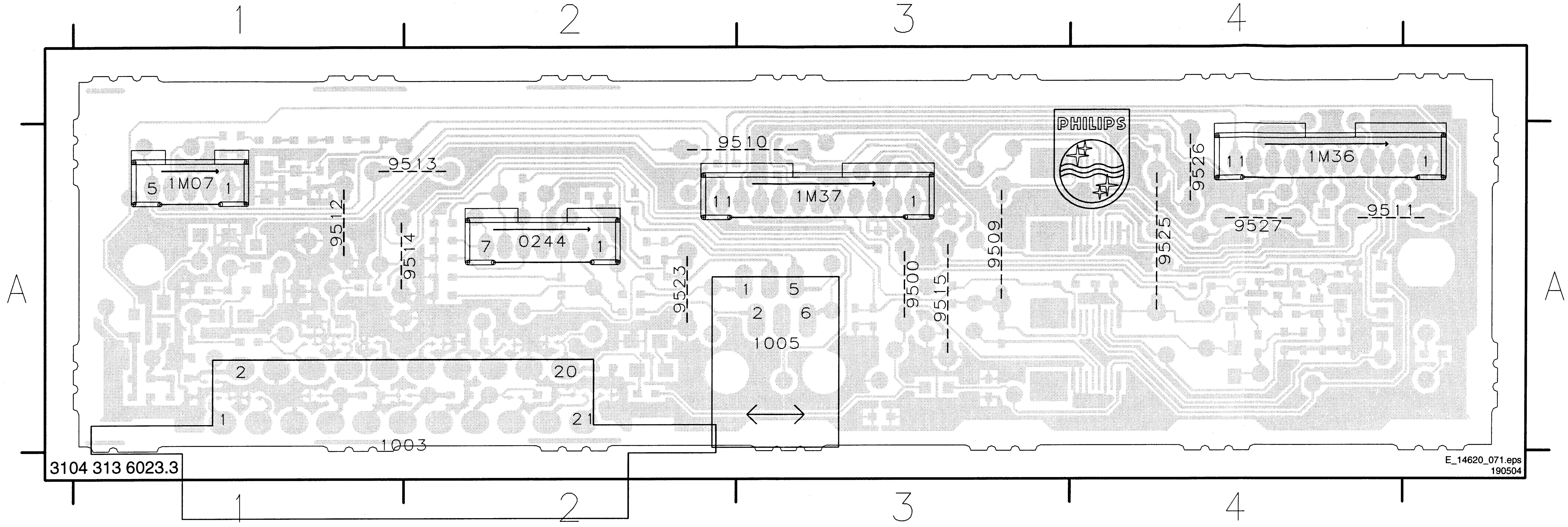
3104 313 6023.3

E_14620_070.eps
190504

0244	B13
1003	B1
1005	C13
1500	B3
1501	C2
1502	C3
1504	E2
1505	E2
1506	D3
1507	D2
1508	C2
1509	B2
1510	D2
1511	B2
1512	C2
1513	C2
1514	E2
1M07	E12
1M36	F1
1M37	F12
2500	A4
2501	A3
2502	B4
2503	C3
2504	E6
2505	C5
2506	C6
2507	A9
2508	A9
2509	F6
2510	D4
2511	D9
2512	E8
2513	F9
2515	E5
2516	E6
2517	B5
2520	B12
2521	B12
2522	C12
2523	D11
2524	D12
3500	A3
3501	A3
3502	B4
3503	B3
3504	B3
3505	C4
3506	C2
3507	D2
3508	E2
3509	E3
3510	E3
3511	A6
3512	A6
3513	A7
3514	A7
3515	A7
3516	A8
3517	D8
3522	D3
3523	E8
3524	E9
3525	E9
3526	C3
3527	F8
3528	F8
3529	F9
3530	B12
3531	B12
3532	C12
3533	D12
3534	D12
3535	F9
3536	D9
3543	D3
3999	E1
6500	A3
6501	B3
6502	C3
6503	C3
6504	D8
6505	F2
6506	E2
6507	D3
6508	A8
7501	E9
7502	F9
7515	A6
7516	D6
9500	E4
9501	E7
9502	C7
9503	A12
9504	C12
9505	C12
9506	A12
9516	H8
9517	H7
9521	G7
F500	B2
F501	B2
F502	C2
F503	D2
F510	A13
F512	A12
F513	A13
F514	A12
F515	A13
F516	A12
F517	C13
F518	C12
F519	C12
F520	E5
F521	E1
F522	E1
F523	F12
F524	F2
F525	F12
F526	F12
F527	F1
F528	G2
F529	G1
F530	G12
F531	A12
F532	A5
F536	A9
F538	C2
F539	B5
F540	C5
F541	D7
F542	D5
F543	E5
F544	B10
F545	C10
F546	C12
F547	D12
F548	D13
F549	E12
I503	A3
I504	B2
I505	A4
I508	B3
I516	B3
I518	B4
I519	C3
I549	C2
I550	C2
I551	D2
I552	D2
I560	A5
I562	B5
I564	B7
I565	C7
I570	E5
I571	E6
I572	E7
I573	E7
I575	E7
I576	B6
I577	B6
I578	E8
I579	E7
I580	E9
I581	E6
I582	E6
I583	F9
c001	F7

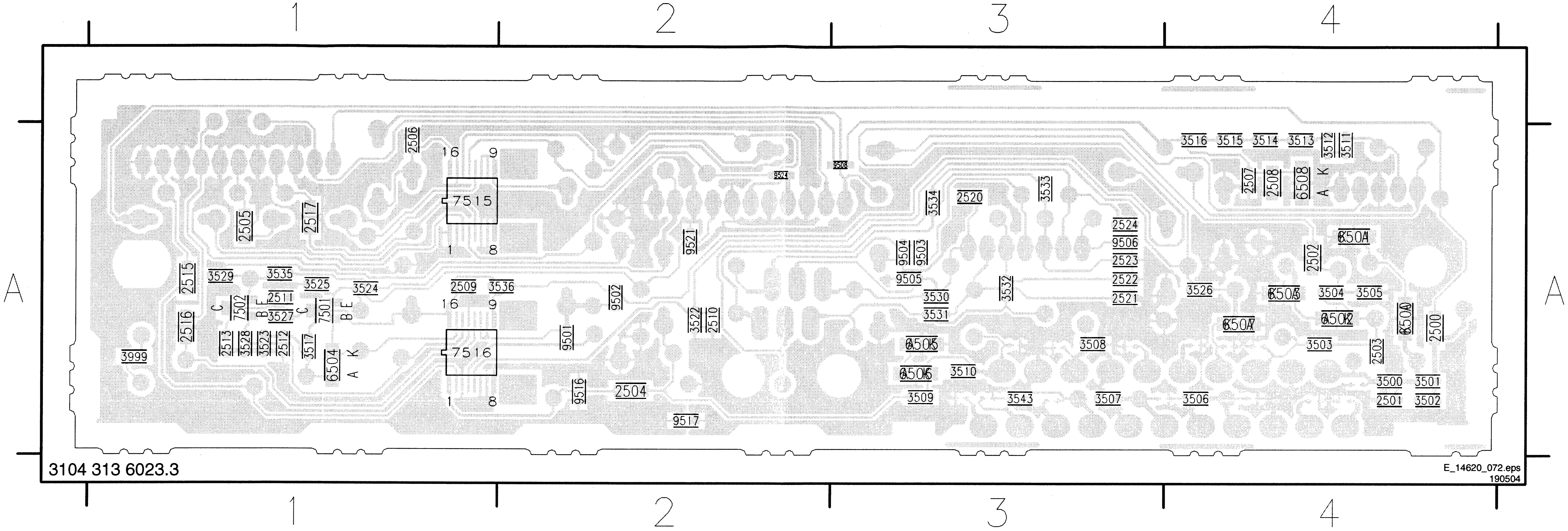
Layout SCART 3 Panel (Top Side)

1003	A1
1005	A3
1M07	A1
1M36	A4
1M37	A3
9500	A3
9509	A3
9510	A3
9511	A4
9512	A1
9513	A2
9514	A1
9515	A3
9523	A2
9525	A4
9526	A4
9527	A4

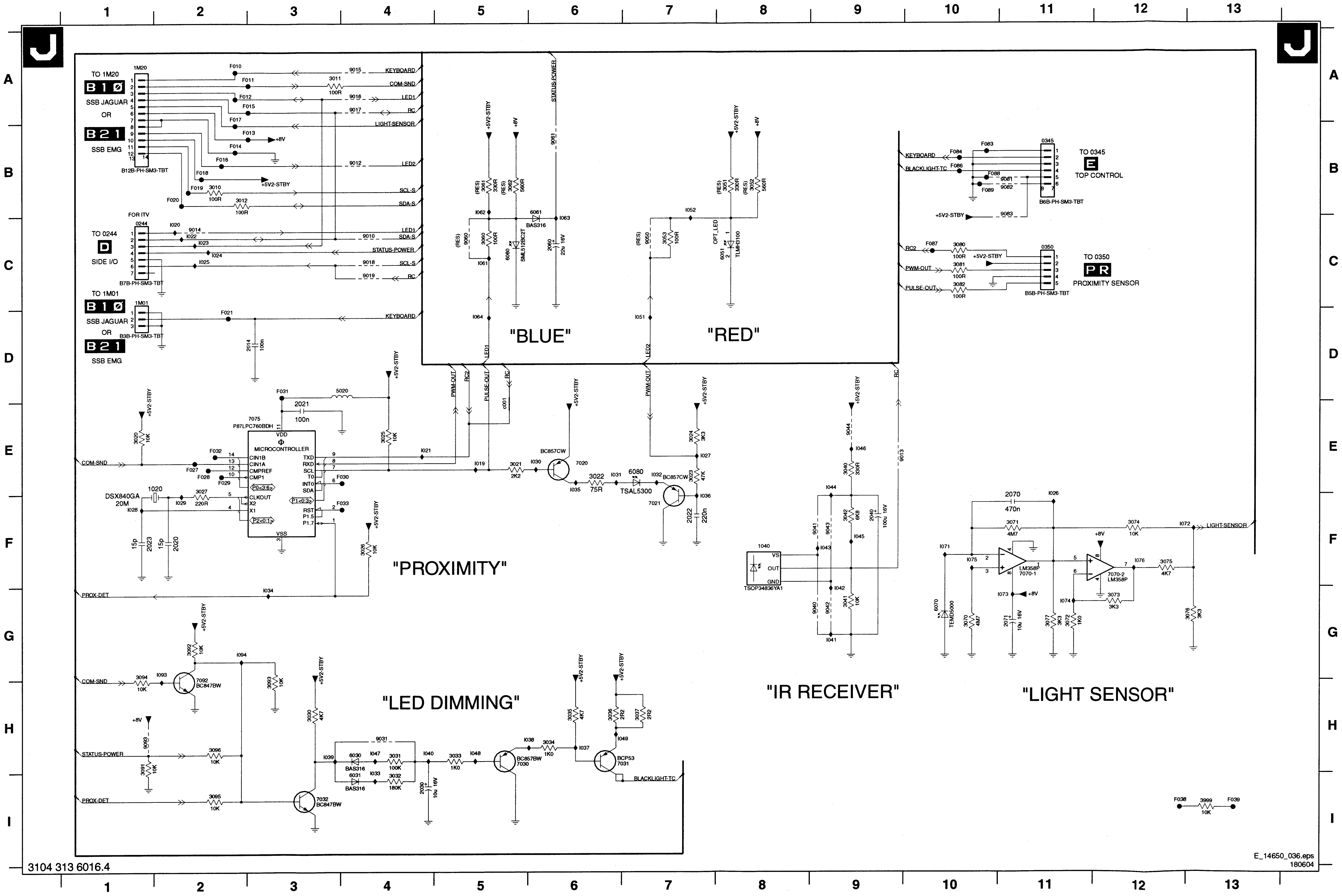

1
2
3
4
A
A
1M07
5
1
9513
9512
9514
0244
7
1
9510
1M37
11
1
9523
1005
1
5
2
6
9509
9500
9515
PHILIPS
9525
9526
1M36
11
1
9527
9511
2
20
1
21
1003
3104 313 6023.3
E_14620_071.eps
190504
1
2
3
4

Layout SCART 3 Panel (Bottom Side)

2500	A4
2501	A4
2502	A4
2503	A4
2504	A2
2505	A1
2506	A1
2507	A4
2508	A4
2509	A1
2510	A2
2511	A1
2512	A1
2513	A1
2515	A1
2516	A1
2517	A1
2520	A3
2521	A3
2522	A3
2523	A3
2524	A3
3500	A4
3501	A4
3502	A4
3503	A4
3504	A4
3505	A4
3506	A4
3507	A3
3508	A3
3509	A3
3510	A3
3511	A4
3512	A4
3513	A4
3514	A4
3515	A4
3516	A4
3517	A1
3522	A2
3523	A1
3524	A1
3525	A1
3526	A4
3527	A1
3528	A1
3529	A1
3530	A3
3531	A3
3532	A3
3533	A3
3534	A3
3535	A1
3536	A2
3543	A3
3999	A1
6500	A4
6501	A4
6502	A4
6503	A4
6504	A1
6505	A3
6506	A3
6507	A4
6508	A4
7501	A1
7502	A1
7515	A2
7516	A2
9501	A2
9502	A2
9503	A3
9504	A3
9505	A3
9506	A3
9508	A3
9516	A2
9517	A2
9521	A2
9524	A2

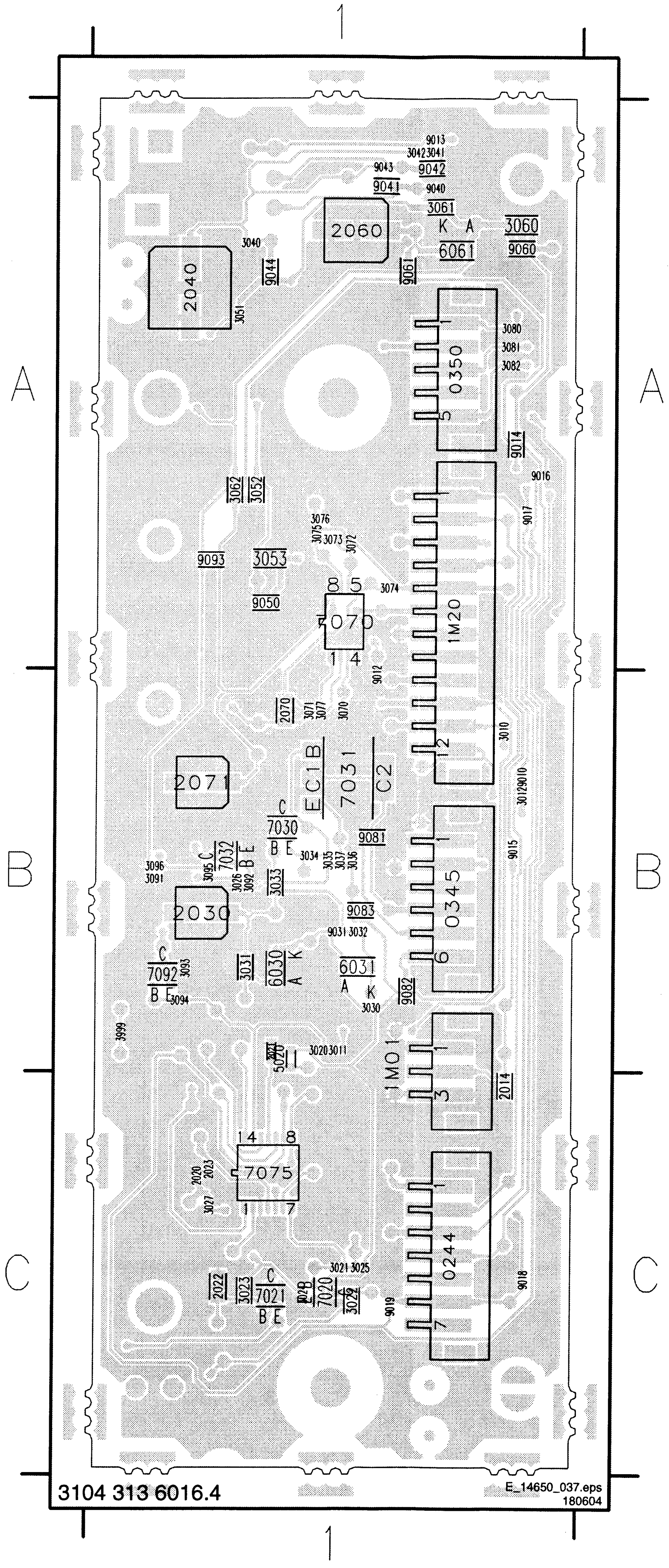

1
2
3
4
A
A
2506
16
9
7515
1
8
2505
2517
2515
3529
3535
3525
3524
2509
3536
2511
3527
7502
7501
2516
3999
2513
3528
3523
2512
3517
6504
16
9
7516
1
8
9521
9502
9501
9516
2504
9517
3522
2510
9524
9508
3534
2520
3533
9504
9503
9505
3530
3531
3532
6505
6506
3510
3509
3543
2524
9506
2523
2522
2521
3508
3507
3506
3516
3515
3514
3513
3512
3511
2507
2508
6508
6501
2502
3526
6503
3504
3505
6507
6502
6500
2500
3503
2503
3500
3501
2501
3502
A
K
B
E
C
3104 313 6023.3
E_14620_072.eps
190504

LED and Switch Panel


J
TO 1M20
B10
SSB JAGUAR
OR
B21
SSB EMG
1M20
B12B-PH-SM3-TBT
FOR ITV
TO 0244
D
SIDE I/O
0244
B7B-PH-SM3-TBT
TO 1M01
B10
SSB JAGUAR
OR
B21
SSB EMG
1M01
B3B-PH-SM3-TBT
KEYBOARD
COM-SND
LED1
RC
LIGHT-SENSOR
LED2
SCL-S
SDA-S
STATUS-POWER
"BLUE"
"RED"
+5V2-STBY
+8V
BAS316
SML512BC2T
TLMH3100
OPT_LED
TO 0345
E
TOP CONTROL
0345
B6B-PH-SM3-TBT
BLACKLIGHT-TC
RC2
PWM-OUT
PULSE-OUT
TO 0350
PR
PROXIMITY SENSOR
0350
B5B-PH-SM3-TBT
7075
P87LPC760BDH
MICROCONTROLLER
DSX840GA
20M
BC857CW
TSAL5300
"PROXIMITY"
PROX-DET
TSOP34836YA1
"IR RECEIVER"
LM358P
TEMD5000
"LIGHT SENSOR"
BC847BW
BC857BW
BCP53
"LED DIMMING"
3104 313 6016.4
E_14650_036.eps
180604

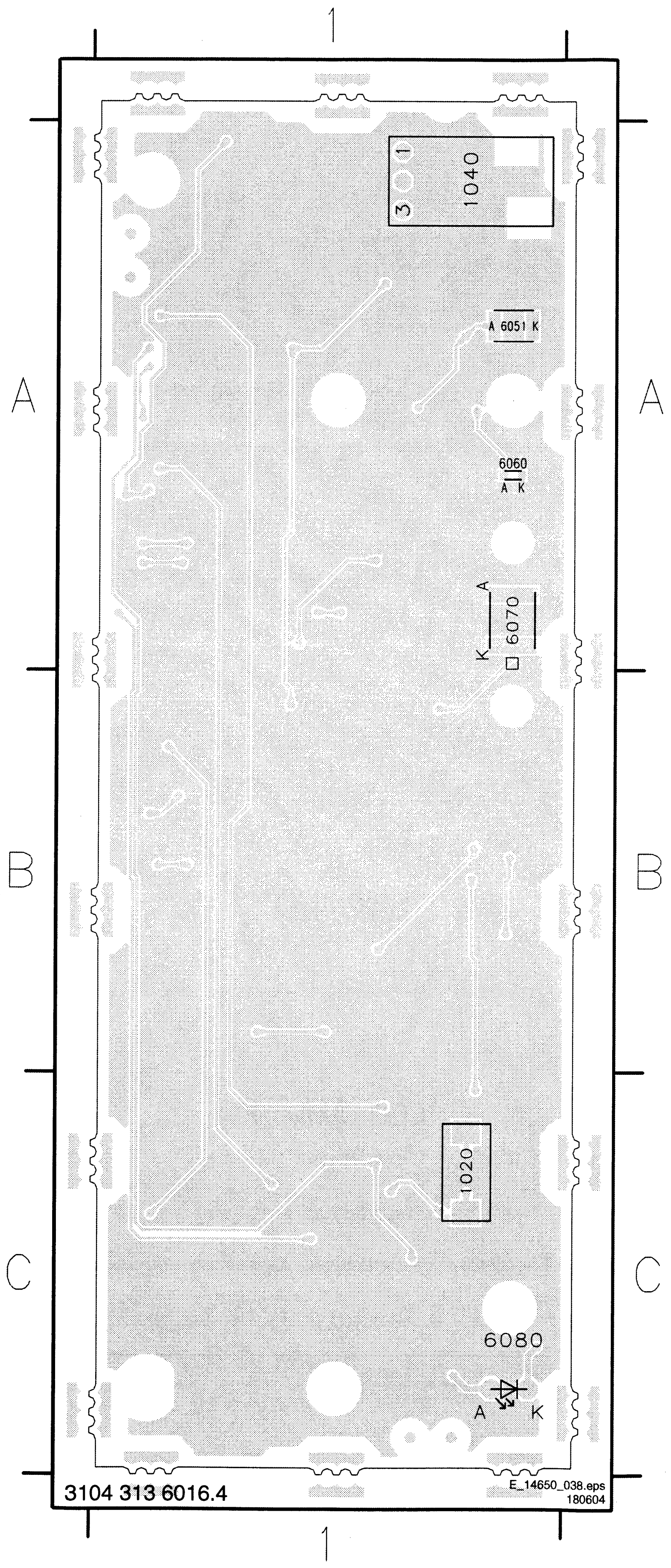
0244	C1
0345	B11
0350	C11
1020	E2
1040	F8
1M01	C1
1M20	A1
2014	D3
2020	F2
2021	E3
2022	F7
2023	F1
2030	I4
2040	F9
2060	C6
2070	F11
2071	G11
3010	B2
3011	A3
3012	B2
3020	E1
3021	E5
3022	E6
3023	E7
3024	E7
3025	E4
3026	F4
3027	E2
3030	H3
3031	H4
3032	I4
3033	H5
3034	H6
3035	H6
3036	H6
3037	H7
3040	E9
3041	G9
3042	F9
3051	B8
3052	B8
3053	C7
3060	C5
3061	B5
3062	B5
3070	G10
3071	F11
3072	G11
3073	G12
3074	F12
3075	F12
3076	G13
3077	G11
3080	C10
3081	C10
3082	C10
3091	H1
3092	G2
3093	H3
3094	G1
3095	I2
3096	H2
3999	I13
5020	D4
6030	H4
6031	I4
6051	C8
6060	C5
6061	B6
6070	G10
6080	E7
7020	E6
7021	F7
7030	H5
7031	H6
7032	I3
7070-1	F11
7070-2	F12
7075	E3
7092	H2
9010	C4
9012	B4
9013	E9
9014	C2
9015	A4
9016	A4
9017	A4
9018	C4
9019	C4
9031	H4
9040	G9
9041	F9
9042	G9
9043	F9
9044	E9
9050	C7
9060	C5
9061	B6
9081	B11
9082	B11
9083	C11
9093	H1
F010	A2
F011	A3
F012	A2
F013	B3
F014	B2
F015	A3
F016	B2
F017	A2
F018	B2
F019	B2
F020	B2
F021	D2
F027	E2
F028	E2
F029	E2
F030	E4
F031	D3
F032	E2
F033	F4
F038	I12
F039	I13
F083	B10
F084	B10
F086	B10
F087	C10
F088	B10
F089	B10
I019	E5
I020	C2
I021	E4
I022	C2
I023	C2
I024	C2
I025	C2
I026	F11
I027	E7
I028	F1
I029	F2
I030	E6
I031	E6
I032	E7
I033	I4
I034	G3
I035	E6
I036	F7
I037	H6
I038	H6
I039	H3
I040	H4
I041	G9
I042	G9
I043	F9
I044	E9
I045	F9
I046	E9
I047	H4
I048	H5
I049	H7
I051	D7
I052	B7
I061	C5
I062	B5
I063	C6
I064	D5
I071	F10
I072	F12
I073	G11
I074	G11
I075	F10
I076	F12
I093	G2
I094	G2
c001	E5

Layout LED and Switch Panel (Top Side)


1
A
B
C
2060
2040
9013
3042 3041
9043
9042
9041
9040
3061
K A
6061
3060
9060
3040
9044
3051
9061
0350
3080
3081
3082
9014
9016
9017
3062
3052
3076
3075 3073 3072
9093
3053
9050
8 5
3074
7070
1 4
1M20
9012
2070
3071 3077
3070
3010
2071
EC1B
7031
C2
3012 9010
C
7030
B E
9081
3096
3091
3095 C
7032
B E
3026 3092
3033
3034
3035 3037 3036
9015
0345
2030
9083
9031 3032
C
7092
B E
3094
3093
3031
6030
A K
6031
A K
3030
9082
3999
5020
3020 3011
1M01
2014
14 8
7075
1 7
2020 2023
3027
0244
3021 3025
2022
3023
C
7021
B E
3028
7020
3024
9019
9018
3104 313 6016.4
E_14650_037.eps
180604

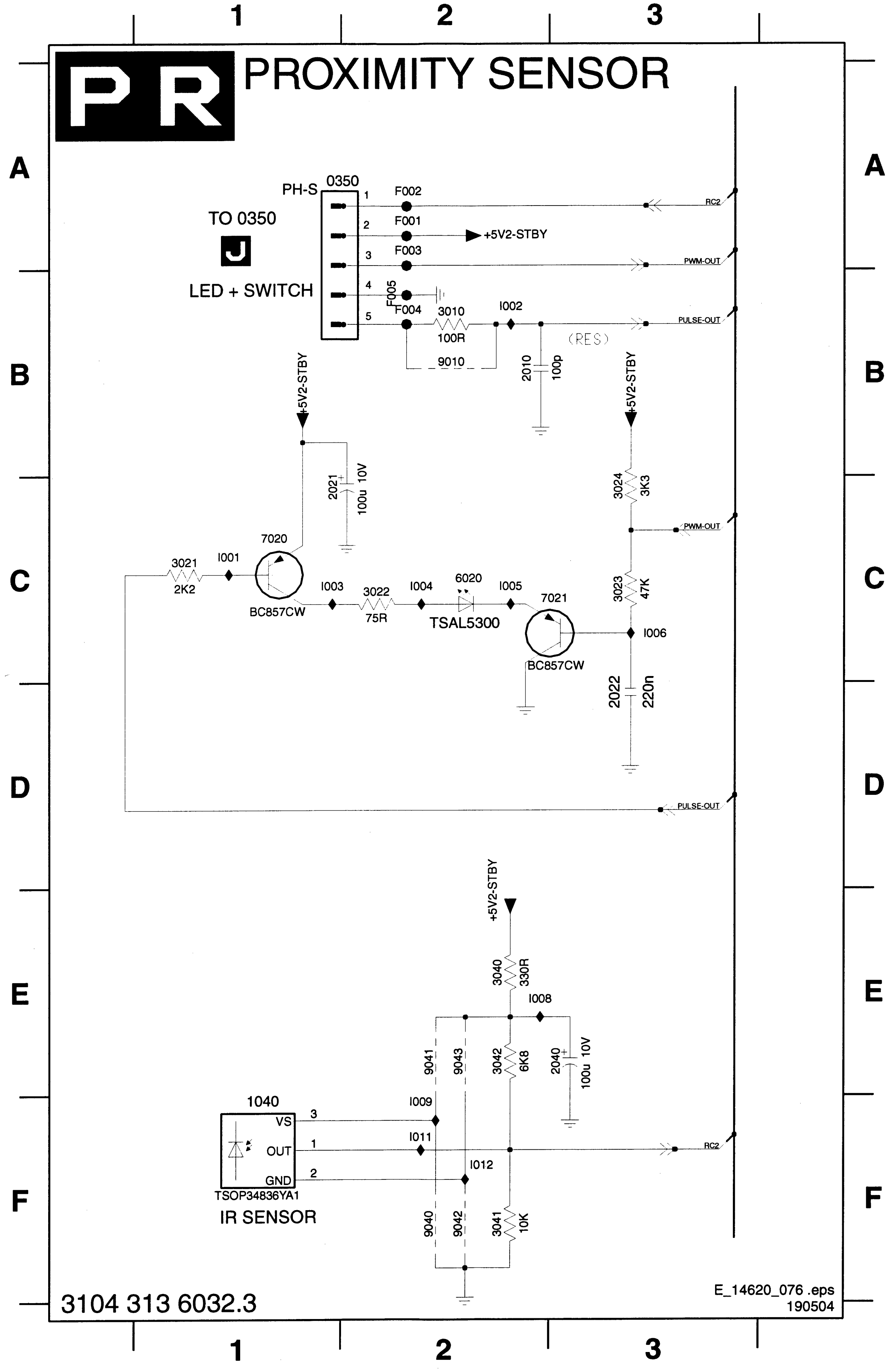
0244	C1	9012	B1
0345	B1	9013	A1
0350	A1	9014	A1
1040	A1	9015	B1
1M01	B1	9016	A1
1M20	A1	9017	A1
2014	C1	9018	C1
2020	C1	9019	C1
2021	B1	9031	B1
2022	C1	9040	A1
2023	C1	9041	A1
2030	B1	9042	A1
2040	A1	9043	A1
2060	A1	9044	A1
2070	B1	9050	A1
2071	B1	9060	A1
3010	B1	9061	A1
3011	B1	9081	B1
3012	B1	9082	B1
3020	B1	9083	B1
3021	C1	9093	A1
3022	C1		
3023	C1		
3024	C1		
3025	C1		
3026	B1		
3027	C1		
3030	B1		
3031	B1		
3032	B1		
3033	B1		
3034	B1		
3035	B1		
3036	B1		
3037	B1		
3040	A1		
3041	A1		
3042	A1		
3051	A1		
3052	A1		
3053	A1		
3060	A1		
3061	A1		
3062	A1		
3070	B1		
3071	B1		
3072	A1		
3073	A1		
3074	A1		
3075	A1		
3076	A1		
3077	B1		
3080	A1		
3081	A1		
3082	A1		
3091	B1		
3092	B1		
3093	B1		
3094	B1		
3095	B1		
3096	B1		
3999	B1		
5020	B1		
6030	B1		
6031	B1		
6061	A1		
6080	C1		
7020	C1		
7021	C1		
7030	B1		
7031	B1		
7032	B1		
7070	A1		
7075	C1		
7092	B1		
9010	B1		

Layout LED and Switch Panel (Bottom Side)


1
A
B
C
3 0 1
1040
A 6051 K
6060
A K
A
6070
K
1020
6080
A K
3104 313 6016.4
E_14650_038.eps
180604

1020	C1
1040	A1
6051	A1
6060	A1
6070	A1
6080	C1

Proximity Sensor

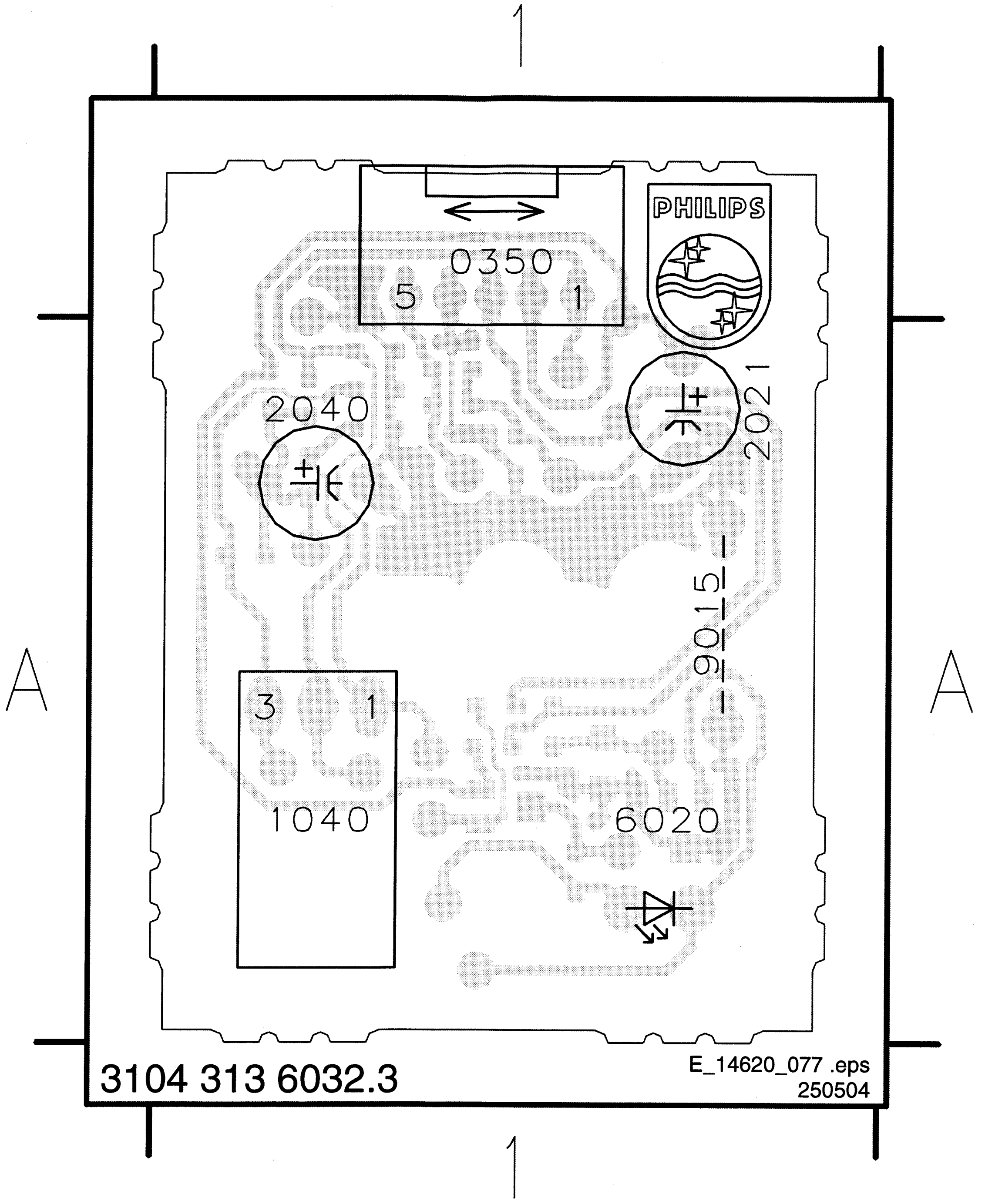

1
2
3
A
B
C
D
E
F
PR
PROXIMITY SENSOR
PH-S
0350
TO 0350
J
LED + SWITCH
F002
F001
F003
F004
F005
+5V2-STBY
RC2
PWM-OUT
PULSE-OUT
3010
100R
I002
9010
(RES)
2010
100p
2021
100u 10V
7020
3021
2K2
I001
BC857CW
I003
3022
75R
I004
6020
TSAL5300
I005
7021
BC857CW
3024
3K3
3023
47K
I006
2022
220n
3040
330R
I008
9041
9043
3042
6K8
2040
100u 10V
1040
VS
OUT
GND
TSOP34836YA1
IR SENSOR
I009
I011
I012
9040
9042
3041
10K
3104 313 6032.3
E_14620_076 .eps
190504

0350	A2
1040	F1
2010	B2
2021	C1
2022	D3
2040	E3
3010	B2
3021	C1
3022	C2
3023	C3
3024	C3
3040	E2
3041	F2
3042	E2
6020	C2
7020	C1
7021	C3
9010	B2
9040	F2
9041	E2
9042	F2
9043	E2
F001	A2
F002	A2
F003	A2
F004	B2
F005	B2
I001	C1
I002	B2
I003	C1
I004	C2
I005	C2
I006	C3
I008	E2
I009	F2
I011	F2
I012	F2

Personal Notes:

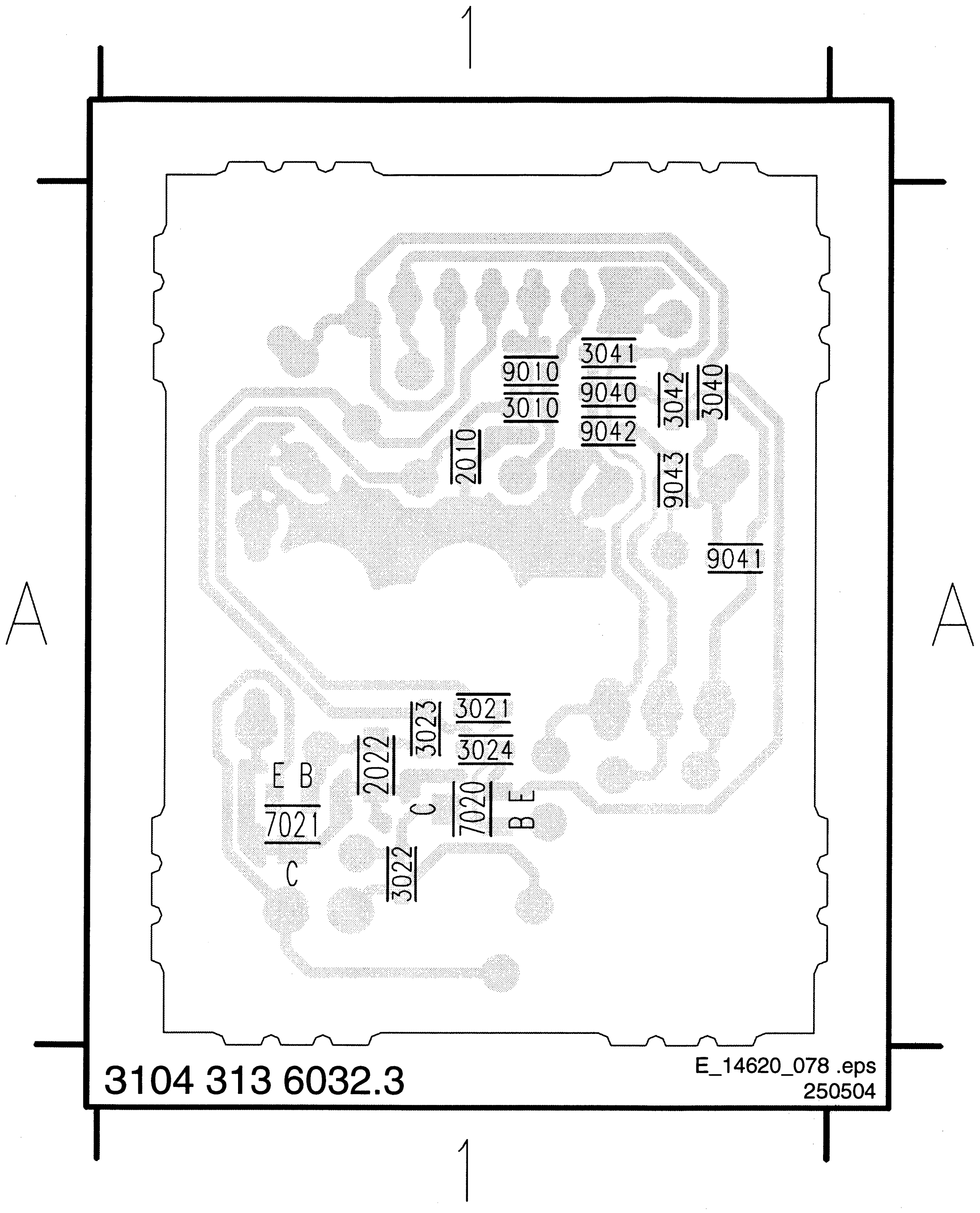
E_06532_012.eps
131004

Layout Proximity Sensor (Top Side)


1
0350
5
1
PHILIPS
2040
2021
9015
A
A
3
1
1040
6020
3104 313 6032.3
E_14620_077 .eps
250504
1

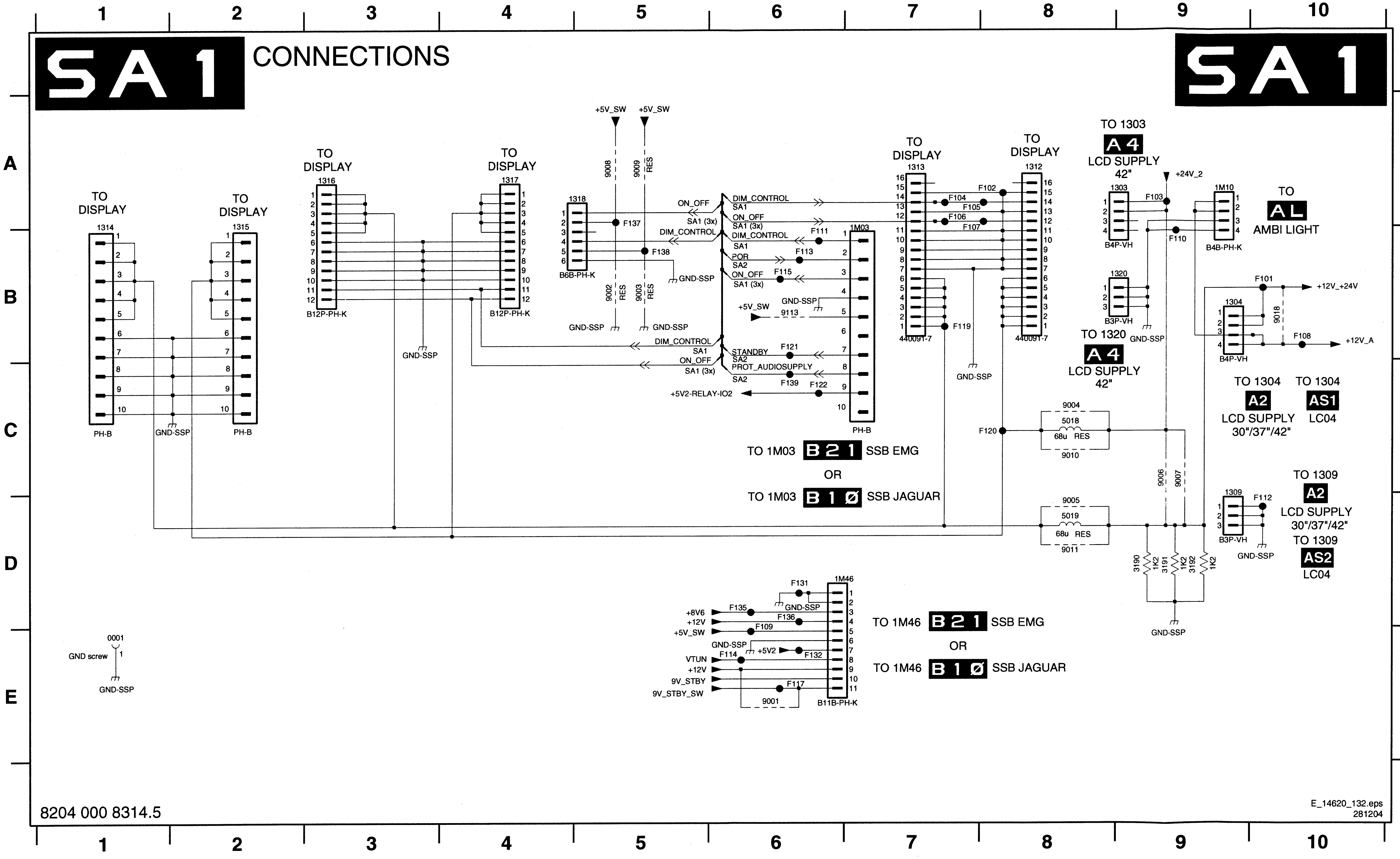
0350	A1
1040	A1
2021	A1
2040	A1
6020	A1
9015	A1

Layout Proximity Sensor (Bottom Side)


1
3041
9010
9040
3042
3040
3010
9042
2010
9043
9041
A
A
3021
3023
3024
2022
E B
C
7020
B E
7021
C
3022
3104 313 6032.3
E_14620_078 .eps
250504
1

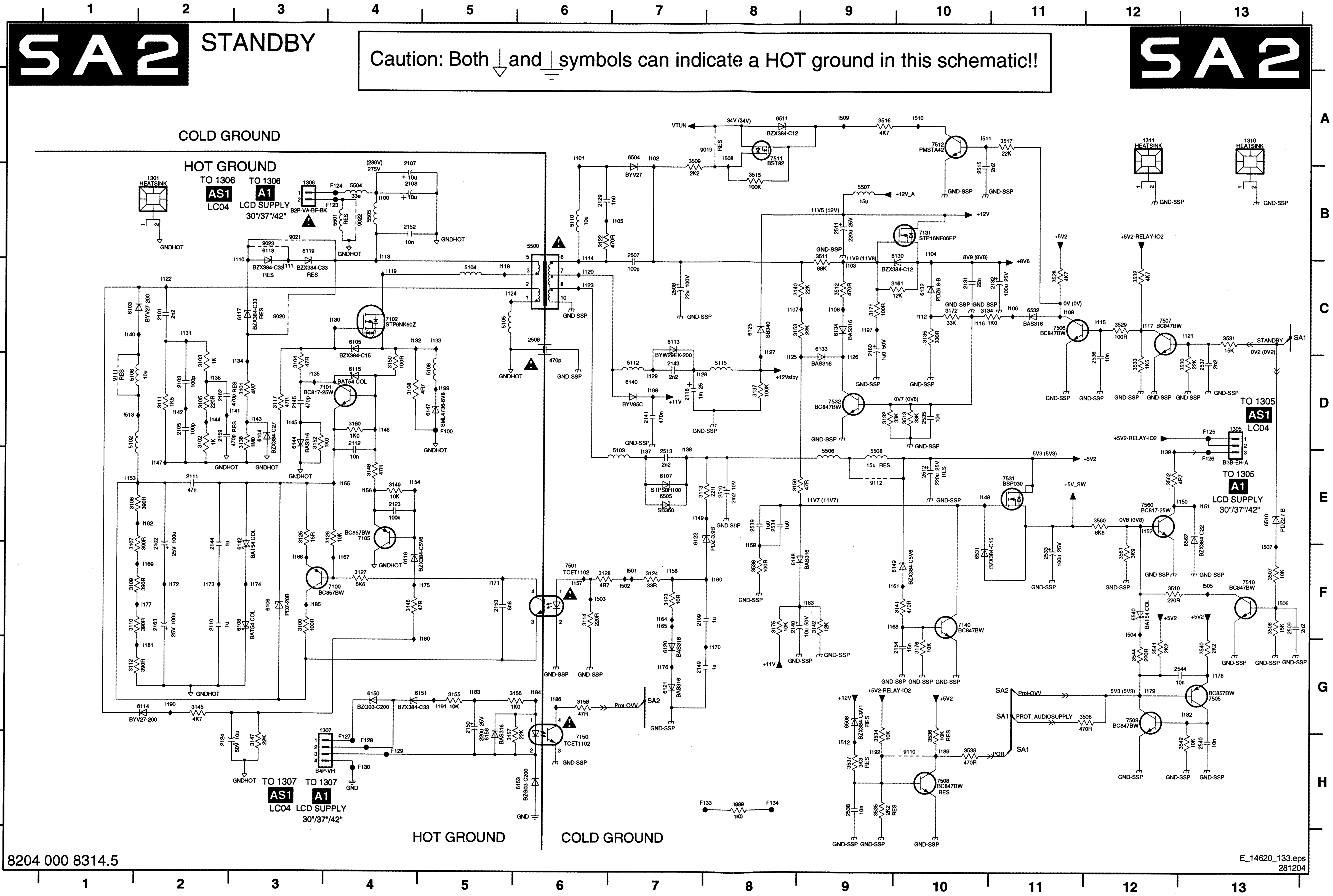
0350	A1
1040	A1
2010	A1
2021	A1
2022	A1
2040	A1
3010	A1
3021	A1
3022	A1
3023	A1
3024	A1
3040	A1
3041	A1
3042	A1
6020	A1
7020	A1
7021	A1
9010	A1
9015	A1
9040	A1
9041	A1
9042	A1
9043	A1

LCD Standby Audio Panel: Connections


SA1
CONNECTIONS
TO DISPLAY
1314
PH-B
1315
PH-B
GND-SSP
1316
B12P-PH-K
1317
B12P-PH-K
1318
B6B-PH-K
+5V_SW
9008
9009 RES
9002 RES
9003 RES
F137
F138
ON_OFF
SA1 (3x)
DIM_CONTROL
DIM_CONTROL
SA1
ON_OFF
SA1 (3x)
POR
SA2
STANDBY
PROT_AUDIOSUPPLY
+5V2-RELAY-IO2
F111
F113
F115
F121
F122
F139
9113
1M03
TO 1M03 B21 SSB EMG
OR
TO 1M03 B10 SSB JAGUAR
1313
440091-7
1312
F102
F104
F105
F106
F107
F119
F120
TO 1303
A4
LCD SUPPLY
42"
+24V_2
1303
B4P-VH
F103
F110
1M10
B4B-PH-K
TO
AL
AMBI LIGHT
1320
B3P-VH
TO 1320
A4
LCD SUPPLY
42"
F101
+12V_+24V
1304
B4P-VH
9018
F108
+12V_A
TO 1304
A2
LCD SUPPLY
30"/37"/42"
TO 1304
AS1
LC04
9004
5018
68u RES
9010
9005
5019
68u RES
9011
9006
9007
3190 1K2
3191 1K2
3192 1K2
1309
B3P-VH
F112
TO 1309
A2
LCD SUPPLY
30"/37"/42"
TO 1309
AS2
LC04
1M46
B11B-PH-K
F131
F135
F136
F109
F114
F132
F117
+8V6
+12V
+5V_SW
GND-SSP
+5V2
VTUN
+12V
9V_STBY
9V_STBY_SW
9001
TO 1M46 B21 SSB EMG
OR
TO 1M46 B10 SSB JAGUAR
0001
GND screw
8204 000 8314.5
E_14620_132.eps
281204

0001	E1
1303	A9
1304	B9
1309	D9
1312	A8
1313	A7
1314	B1
1315	B2
1316	A3
1317	A4
1318	A5
1320	B9
1M03	B7
1M10	A9
1M46	D7
3190	D9
3191	D9
3192	D9
5018	C8
5019	D8
9001	E6
9002	B5
9003	B5
9004	C8
9005	D8
9006	C9
9007	C9
9008	A5
9009	A5
9010	C8
9011	D8
9018	B10
9113	B6
F101	B10
F102	A8
F103	A9
F104	A7
F105	A7
F106	A7
F107	B7
F108	B10
F109	E6
F110	B9
F111	B6
F112	D10
F113	B6
F114	E6
F115	B6
F117	E6
F119	B7
F120	C8
F121	B6
F122	C6
F131	D6
F132	E6
F135	D6
F136	D6
F137	A5
F138	B5
F139	C6

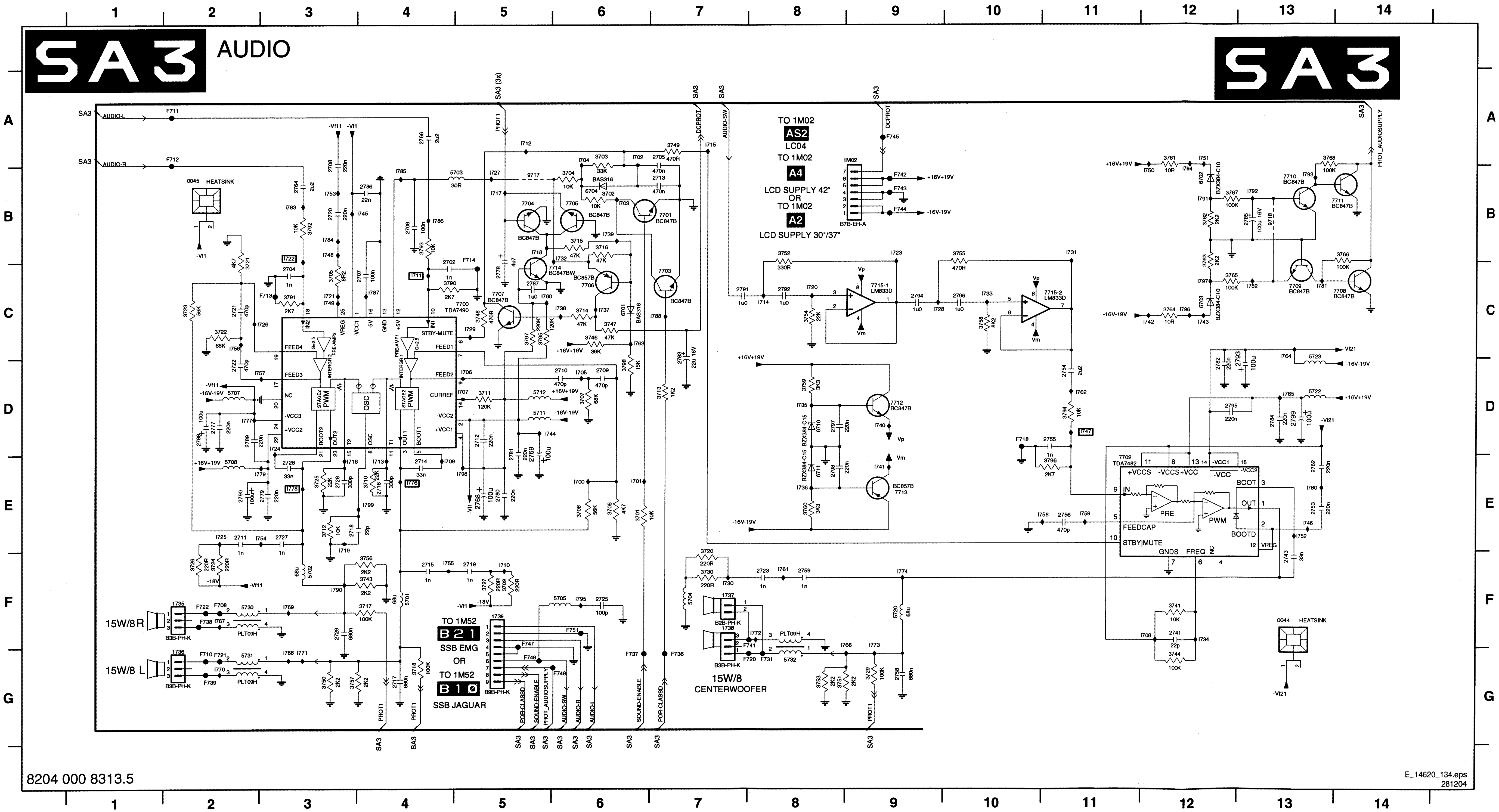
LCD Standby Audio Panel: Standby


SA2
STANDBY
SA2
Caution: Both ⏚ and ⏚ symbols can indicate a HOT ground in this schematic!!
1 2 3 4 5 6 7 8 9 10 11 12 13
A B C D E F G H
COLD GROUND
HOT GROUND
TO 1306 AS1 LC04
TO 1306 A1 LCD SUPPLY 30"/37"/42"
1301 HEATSINK
1311 HEATSINK
1310 HEATSINK
GNDHOT
GND-SSP
VTUN
34V (34V)
+12V_A
+12V
11V5 (12V)
11V9 (11V8)
8V9 (8V8)
+8V6
+5V2
+5V2-RELAY-IO2
0V (0V)
STANDBY
0V2 (0V2)
SA1
TO 1305 AS1 LC04
TO 1305 A1 LCD SUPPLY 30"/37"/42"
5V3 (5V3)
+5V_SW
+12Vstby
+11V
0V7 (0V6)
11V7 (11V7)
0V8 (0V8)
Prot-OVV
SA2
PROT_AUDIOSUPPLY
POR
TO 1307 AS1 LC04
TO 1307 A1 LCD SUPPLY 30"/37"/42"
B4P-VH
B2P-VA-BF-BK
B3B-EH-A
5500
7102 STP6NK60Z
7131 STP16NF06FP
7512 PMSTA42
7511 BST82
7501 TCET1102
7150 TCET1102
7531 BSP030
7532 BC847BW
7140 BC847BW
7508 BC847BW
7506 BC847BW
7507 BC847BW
7560 BC817-25W
7510 BC847BW
7505 BC857BW
7509 BC847BW
7100 BC857BW
7101 BC817-25W
7105 BC857BW
HOT GROUND
COLD GROUND
8204 000 8314.5
E_14620_133.eps
281204

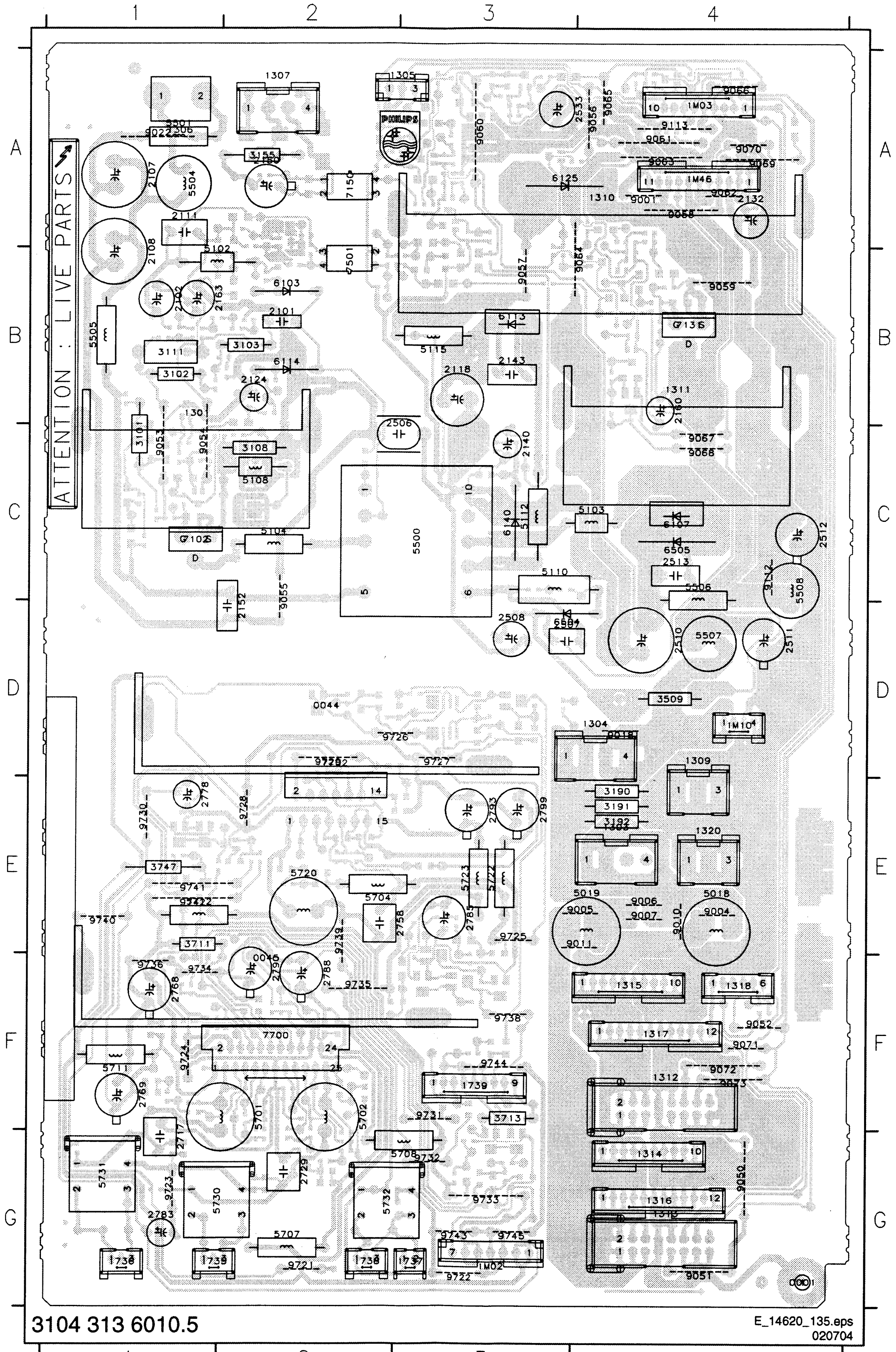
1301 B2
1305 D13
1306 B3
1307 H4
1310 A13
1311 A12
2101 C2
2102 F2
2103 D2
2105 D2
2107 A4
2108 B4
2109 F7
2110 F2
2111 E2
2112 D4
2118 D7
2123 E4
2124 H2
2129 B6
2131 C10
2132 C11
2140 F8
2141 D7
2143 D7
2144 F2
2145 D3
2149 G7
2150 G5
2152 B4
2153 F5
2154 G10
2159 D2
2160 C9
2162 D2
2163 F2
2506 C6
2507 B7
2508 C7
2509 F13
2510 E8
2511 B9
2512 E10
2513 E7
2515 B10
2533 F11
2534 E8
2535 D10
2536 D12
2537 D13
2538 H9
2539 E8
2540 H13
2544 G13
3100 F3
3101 D3
3102 D2
3103 D2
3104 D3
3105 D2
3106 E1
3107 F1
3108 D4
3109 F1
3110 F1
3111 D2
3112 G1
3113 E7
3114 F6
3117 D3
3122 B6
3123 F7
3124 F7
3125 E3
3126 E4
3127 F4
3128 F6
3132 D9
3134 C10
3135 C10
3137 D8
3138 D3
3140 C8
3141 F10
3142 F9
3145 G2
3146 F4
3147 H3
3148 E4
3149 E4
3150 D4
3152 D3
3153 C8
3155 G5
3156 G6
3157 H5
3158 G6
3159 E8
3160 D4
3161 C10
3171 C9
3172 C10
3175 F8
3176 G10
3506 G12
3507 F13
3508 F13
3509 A7
3510 F12
3511 B9
3512 C9
3513 D10
3515 B8
3516 A9
3517 A11
3528 C11
3529 C12
3530 D13
3531 C13
3532 C12
3533 D12
3534 H9
3535 H9
3536 H10
3537 H9
3538 F8
3539 H10
3540 G13
3541 G12
3542 H13
3544 G12
3560 E12
3561 F12
3562 E12
3999 H8
5102 D1
5103 E7
5104 C5
5105 C5
5106 D1
5108 D5
5110 B6
5112 D7
5115 D8
5500 B6
5501 B4
5504 B4
5505 B4
5506 E9
5507 B9
5508 E9
6103 C1
6104 D3
6105 C4
6106 F3
6107 E7
6108 F3
6113 C7
6114 G2
6115 D4
6116 F4
6117 C3
6118 B3
6119 B3
6120 G7
6121 G7
6122 E7
6125 C8
6130 B10
6132 C10
6133 C9
6134 C9
6140 D7
6142 F3
6144 D3
6147 D5
6148 F8
6149 F9
6150 G4
6151 G5
6153 H6
6156 H5
6504 A7
6505 E7
6508 G9
6510 E13
6511 A8
6531 F10
6532 C11
6540 F12
6562 E13
7100 F4
7101 D4
7102 C4
7105 E4
7131 B10
7140 F10
7150 H6
7501 F6
7505 G13
7506 C11
7507 C12
7508 H10
7509 G12
7510 F13
7511 A8
7512 A10
7531 E11
7532 D9
7560 E12
9019 A8
9020 C3
9021 B3
9022 B4
9023 B3
9110 H10
9111 D1
9112 E9
F100 D5
F123 B4
F124 B4
F125 D13
F126 E13
F127 H4
F128 H4
F129 H4
F130 H4
F133 H8
F134 H8
I100 B4
I101 A6
I102 A7
I103 C9
I104 B10
I105 B7
I106 C11
I107 C8
I108 C9
I109 C11
I110 C3
I111 C3
I112 C10
I113 B4
I114 B6
I115 C12
I116 C10
I117 C12
I118 C5
I119 C4
I120 C6
I121 C13
I122 C2
I123 C6
I124 C5
I125 D8
I126 D9
I127 C8
I128 D7
I129 D7
I130 C4
I131 C2
I132 C4
I133 C5
I134 D3
I135 D3
I136 D2
I137 E7
I138 E7
I139 E12
I140 C1
I141 D3
I142 D2
I143 D3
I144 D2
I145 D3
I146 D4
I147 E2
I148 E10
I149 E7
I150 E13
I151 E13
I152 E12
I153 E1
I154 E4
I155 E4
I156 E4
I157 F6
I158 F7
I159 F8
I160 F8
I161 F9
I162 E2
I163 F9
I164 F7
I165 F7
I166 F3
I167 F4
I168 F9
I169 F2
I170 G8
I171 F5
I172 F2
I173 F2
I174 F3
I175 F5
I176 G7
I177 F2
I178 G13
I179 G12
I180 G5
I181 G2
I182 G13
I183 G5
I184 G6
I185 F3
I186 G6
I189 H10
I190 G2
I191 G5
I192 H9
I197 C9
I198 D7
I199 D5
I501 F7
I502 F7
I503 F6
I504 F12
I505 F13
I506 F13
I507 F13
I508 A8
I509 A9
I510 A10
I511 A10
I512 H9
I513 D1

LCD Standby Audio Panel: Audio

0044	F13
0045	B2
1735	F2
1736	G2
1737	F7
1738	F7
1739	F5
1M02	A9
2702	C4
2704	C3
2705	A7
2706	B4
2707	C4
2708	A3
2709	D6
2710	D6
2711	E2
2712	D5
2713	B7
2714	E4
2715	F4
2716	E4
2717	G4
2718	E3
2719	F5
2720	B3
2721	C2
2722	D2
2723	F8
2725	F6
2726	E3
2727	E3
2728	E3
2729	F3
2741	F12
2743	F13
2753	E13
2754	D11
2755	D11
2756	E11
2758	G9
2759	F8
2762	E13
2764	B3
2766	A4
2768	E5
2769	D5
2777	D2
2778	C5
2779	E3
2780	E5
2781	D5
2782	D12
2783	C7
2784	D13
2785	B13
2786	B4
2787	C5
2788	D2
2789	D2
2790	E2
2791	C7
2792	C8
2793	D13
2794	C9
2795	D12
2796	C10
2797	D8
2798	E8
2799	D13
3701	E6
3702	B6
3703	A6
3704	B6
3705	C3
3706	E6
3707	D6
3708	E6
3709	F5
3710	E4
3711	D5
3712	E3
3713	D7
3714	C6
3715	B6
3716	B6
3717	F4
3718	G4
3720	F7
3721	B2
3722	C2
3723	C2
3724	F2
3725	E3
3726	F2
3727	F5
3729	G9
3730	F7
3741	F12
3743	F4
3744	G12
3746	C6
3747	C6
3748	C5
3749	A7
3750	G3
3751	G8
3752	B8
3753	G8
3754	C8
3755	B10
3756	F4
3757	G3
3758	C10
3759	D8
3760	E8
3761	A12
3762	B12
3763	B12
3764	C12
3765	C12
3766	B14
3767	B12
3768	A13
3790	C4
3791	C3
3792	B3
3793	B4
3794	D11
3795	C5
3796	E11
3797	C5
3798	D6
5701	F4
5702	F3
5703	B5
5704	F7
5705	F6
5707	D2
5708	E2
5711	D5
5712	D5
5720	F9
5722	D13
5723	D13
5730	F2
5731	G2
5732	G8
6701	C6
6702	B12
6703	C12
6704	B6
6710	D8
6711	E8
7700	C5
7701	B7
7702	E11
7703	C7
7704	B5
7705	B6
7706	C6
7707	C5
7708	C13
7709	C13
7710	B13
7711	B13
7712	D9
7713	E9
7714	C5
7715-1	C9
7715-2	C11
9717	B5
9718	B13
F708	F2
F710	G2
F711	A2
F712	A2
F713	C3
F714	B5
F718	D10
F720	G8
F721	G2
F722	F2
F731	G8
F736	G7
F737	G6
F738	F2
F739	G2
F741	F8
F742	B9
F743	B9
F744	B9
F745	A9
F747	F5
F748	G5
F749	G6
F751	F6
I700	E6
I701	E6
I702	A6
I703	B6
I704	A6
I705	D6
I706	D5
I707	D5
I708	F12
I709	E4
I710	F5
I711	C4
I712	A5
I713	E4
I714	C8
I715	A7
I716	E3
I717	B5
I718	B5
I719	E3
I720	C8
I721	C3
I722	B3
I723	B9
I724	D3
I725	E2
I726	C3
I727	B5
I728	C9
I729	C5
I730	F7
I731	B11
I732	B6
I733	C10
I734	F12
I735	D8
I736	E8
I737	C6
I738	C6
I739	B6
I740	D9
I741	E9
I742	C12
I743	C12
I744	D5
I745	B4
I746	E13
I747	D11
I748	B3
I749	C3
I750	B12
I751	A12
I752	E13
I753	B3
I754	E3
I755	F4
I756	C2
I757	D2
I758	E11
I759	E11
I760	C5
I761	F8
I762	D11
I763	C6
I764	C13
I765	D13
I766	F9
I767	F2
I768	G3
I769	F3
I770	G2
I771	G3
I772	F8
I773	F9
I774	F9
I776	E4
I777	D2
I778	E3
I779	E3
I780	E13
I781	C13
I782	C13
I783	B3
I784	B3
I785	B4
I786	B4
I787	C4
I788	C7
I790	F3
I791	B12
I792	B13
I793	B13
I794	B12
I795	F6
I796	C12
I797	C12
I798	E5
I799	E4


1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
SA3
AUDIO
SA3
AUDIO-L
AUDIO-R
F711
F712
0045 HEATSINK
0044 HEATSINK
TDA7490
FEED4
FEED3
NC
-VCC3
+VCC2
FEED1
FEED2
CURREF
-VCC2
+VCC1
STBY-MUTE
VREG
OSC
PWM
PROT1
DCPROT
AUDIO-SW
PROT_AUDIOSUPPLY
TO 1M02
AS2
LC04
TO 1M02
A4
LCD SUPPLY 42"
OR
TO 1M02
A2
LCD SUPPLY 30"/37"
1M02
B7B-EH-A
+16V+19V
-16V-19V
7715-1 LM833D
7715-2 LM833D
7702 TDA7482
+VCCS
-VCCS
+VCC
-VCC
IN
PRE
PWM
OUT
BOOT
BOOTD
FEEDCAP
STBY|MUTE
GNDS
FREQ
VREG
7712 BC847B
7713 BC857B
7701 BC847B
7703 BC847B
7704 BC847B
7705 BC847B
7706 BC857B
7707 BC847B
7714 BC847BW
7708 BC847B
7709 BC847B
7710 BC847B
7711 BC847B
BAS316
BZX384-C10
BZX384-C15
15W/8R
15W/8 L
B3B-PH-K
PLT09H
TO 1M52
B21
SSB EMG
OR
TO 1M52
B10
SSB JAGUAR
1739
B9B-PH-K
POR-CLASSD
SOUND-ENABLE
PROT_AUDIOSUPPLY
AUDIO-SW
AUDIO-R
AUDIO-L
15W/8
CENTERWOOFER
B2B-PH-K
8204 000 8313.5
E_14620_134.eps
281204

Layout LCD Standby Audio Panel (Top Side)



0001	G4
0044	D1
0045	E1
1301	B1
1303	E4
1304	D4
1305	A3
1306	A1
1307	A2
1309	D4
1310	A3
1311	B4
1312	F4
1313	G4
1314	G4
1315	F4
1316	G4
1317	F4
1318	F4
1320	E4
1735	G1
1736	G1
1737	G3
1738	G2
1739	F3
1M02	G3
1M03	A4
1M10	D4
1M46	A4
2101	B2
2102	B1
2107	A1
2108	A1
2111	A1
2118	B3
2124	B2
2132	A4
2140	C3
2143	B3
2150	A2
2152	D2
2160	B4
2163	B1
2506	B2
2507	D3
2508	D3
2510	D4
2511	D4
2512	C4
2513	C4
2533	A4
2717	F1
2729	G2
2758	E3
2768	F1
2769	F1
2778	E1
2783	G1
2785	E3
2788	F2
2790	E2
2793	E3
2799	E3
3101	B1
3102	B1
3103	B2
3108	C2
3111	B1
3155	A2
3190	E3
3191	E3
3192	E3
3509	D4
3711	F1
3713	F3
3747	E1
5018	E4
5019	E4
5102	B2
5103	C4
5104	C2
5108	C1
5110	C3
5112	C3
5115	B3
5500	C3
5501	A1
5504	A1
5505	B1
5506	C4
5507	D4
5508	C4
5701	F2
5702	F2
5704	E2
5707	G2
5708	G3
5711	F1
5712	E1
5720	E2
5722	E3
5723	E3
5730	G2
5731	G1
5732	G3
6103	B2
6107	C4
6113	B3
6114	B2
6125	A3
6140	C3
6504	D3
6505	C4
7102	C1
7131	B4
7150	A2
7501	B2
7700	F2
7702	E3
9001	A4
9004	E4
9005	E4
9006	E4
9007	E4
9010	E4
9011	E4
9018	D4
9022	A1
9050	G4
9051	G4
9052	F4
9053	B1
9054	B1
9055	C2
9056	A4
9057	A3
9058	A4
9059	B4
9060	A3
9061	A4
9062	A4
9063	A4
9064	A3
9065	A4
9066	A4
9067	C4
9068	C4
9069	A4
9070	A4
9071	F4
9072	F4
9073	F4
9112	C4
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9723	G1
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9725	E3
9726	D2
9727	D3
9728	E2
9729	D2
9730	E1
9731	F3
9732	G3
9733	G3
9734	F1
9735	F3
9736	F1
9738	F3
9739	F2
9740	E1
9741	E1
9742	E1
9743	G3
9744	F3
9745	G3

Layout LCD Standby Audio Panel (Overview Bottom Side)

2103	B4
2105	B4
2109	B2
2110	B4
2112	C4
2123	C4
2129	C2
2131	A1
2141	C2
2144	A4
2145	C3
2149	B2
2153	B3
2154	A2
2159	B3
2162	B3
2509	A2
2515	B1
2534	A2
2535	A1
2536	B2
2537	A1
2538	A1
2539	A2
2540	A2
2544	A2
2702	F4
2704	F3
2705	G2
2706	F3
2707	F3
2708	F3
2709	G3
2710	F3
2711	G3
2712	F4
2713	G2
2714	F4
2715	F4
2716	F3
2718	F3
2719	F4
2720	F3
2721	G3
2722	G3
2723	E3
2725	F2
2726	G3
2727	G3
2728	F3
2741	D3
2743	E3
2753	D3
2754	E2
2755	E3
2756	E3
2759	E3
2762	E2
2764	F2
2766	F2
2777	F3
2779	F3
2780	F4
2781	F4
2782	E2
2784	E3
2786	F4
2787	E3
2789	F3
2791	F2
2792	D2
2794	D2
2795	E3
2796	D2
2797	D2
2798	D3
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3104	C4
3105	B4
3106	B4
3107	B4
3109	B4
3110	B3
3112	B3
3113	B2
3114	B3
3117	C4
3122	C2
3123	B2
3124	B3
3125	A3
3126	A3
3127	B3
3128	B3
3132	B1
3134	A1
3135	A1
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3138	C4
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3141	A2
3142	C2
3145	B3
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3147	B3
3148	C4
3149	C4
3150	C4
3152	C3
3153	B1
3155	A3
3156	A3
3157	A3
3158	A2
3159	B2
3160	C4
3161	B1
3171	B1
3172	A1
3175	C2
3176	A2
3190	E1
3191	E1
3192	E1
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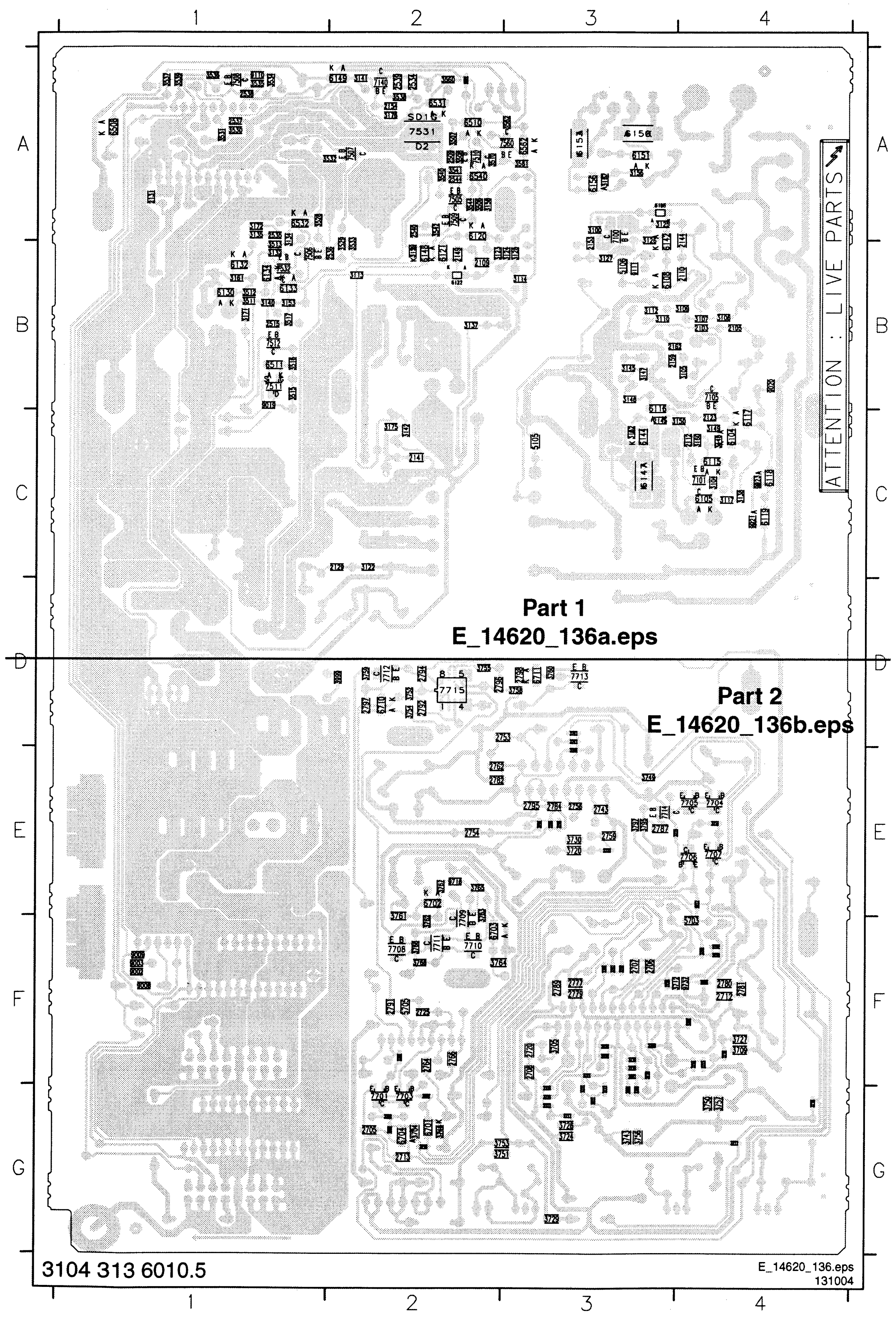
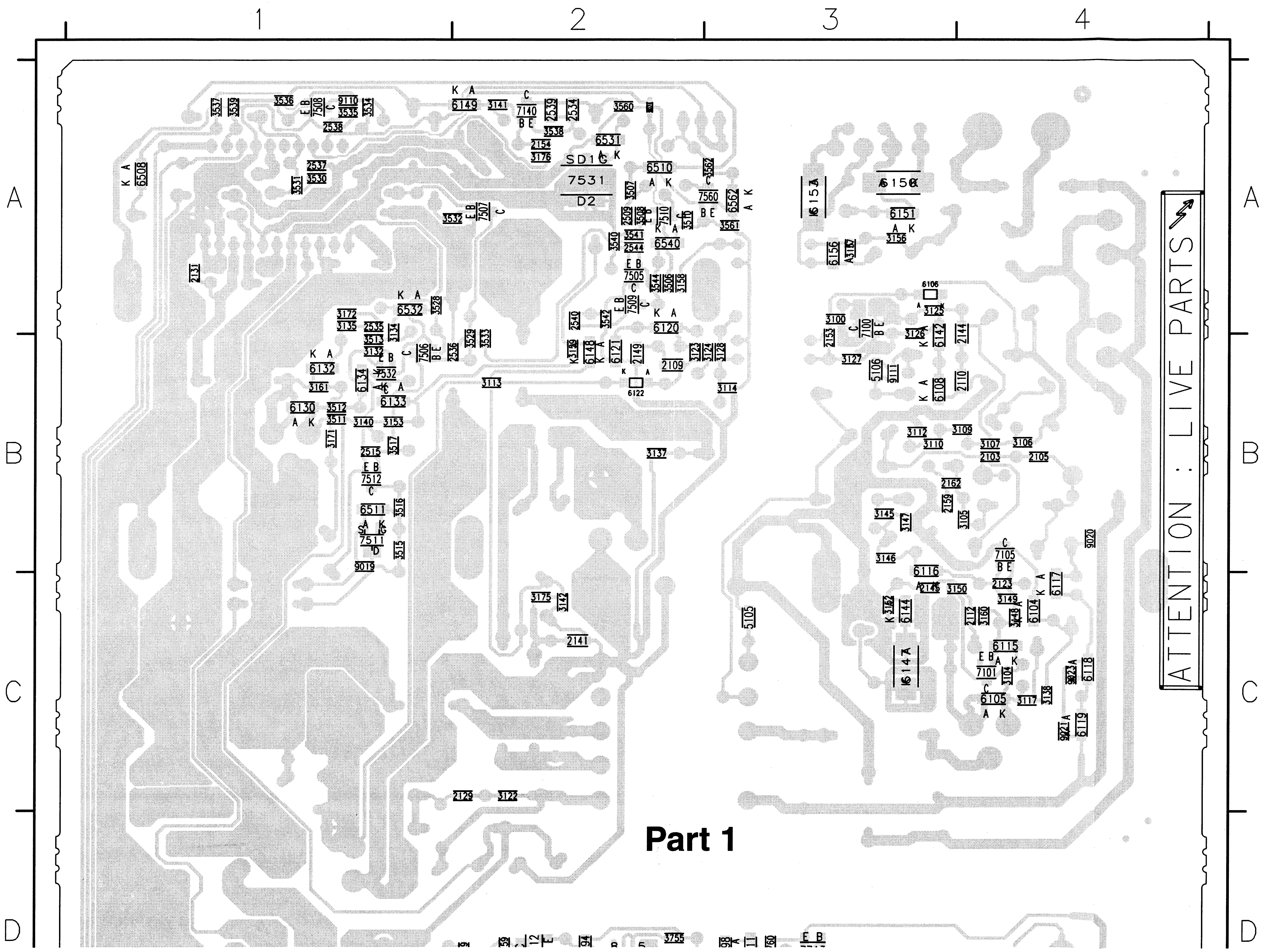
3507	A2
3508	A2
3509	D1
3510	A2
3511	B1
3512	B1
3513	B1
3515	B1
3516	B1
3517	B1
3528	A1
3529	B2
3530	A1
3531	A1
3532	A2
3533	B2
3534	A1
3535	A1
3536	A1
3537	A1
3538	A2
3539	A1
3540	A2
3541	A2
3542	A2
3544	A2
3560	A2
3561	A3
3562	A3
3701	F2
3702	G2
3703	G2
3704	G2
3705	F3
3706	G3
3707	F3
3708	F3
3709	F4
3710	F3
3711	E4
3712	F4
3713	F2
3714	E4
3715	E3
3716	G2
3717	G4
3718	G4
3720	E3
3721	F3
3722	G3
3723	G3
3724	G3
3725	F3
3726	G3
3727	F4
3729	G3
3730	E3
3741	D3
3743	G3
3744	E3
3746	G2
3747	E4
3748	F4
3749	E3
3750	G4
3751	G3
3752	D2
3753	G3
3754	D2
3755	D2
3756	G3
3757	G4
3758	D3
3759	D2
3760	D3
3761	F2
3762	F2
3763	E2
3764	F2
3765	E2
3766	F2
3767	E2
3768	F2
3790	F4
3791	F3
3792	F3
3793	F4
3794	E3
3795	E3
3796	E3
3797	E3
3798	G2
3999	D2
5105	C3
5106	B3
5703	F4
5705	F2
6104	C4
6105	C4
6106	A3
6108	B3
6115	C4
6116	B3
6117	B4
6118	C4
6119	C4
6120	A2
6121	B2
6122	B2
6130	B1
6132	B1
6133	B1
6134	B1
6142	B3
6144	C3
6147	C3
6148	B2
6149	A2
6150	A3
6151	A3
6153	A3
6156	A3
6508	A1
6510	A2
6511	B1
6531	A2
6532	A1
6540	A2
6562	A3
6701	G2
6702	E2
6703	F3
6704	G2
6710	D2
6711	D3
7100	A3
7101	C4
7105	B4
7140	A2
7505	A2
7506	B1
7507	A2
7508	A1
7509	A2
7510	A2
7511	B1
7512	B1
7531	A2
7532	B1
7560	A3
7701	G2
7703	G2
7704	E4
7705	E4
7706	E3
7707	E4
7708	F2
7709	F2
7710	F2
7711	F2
7712	D2
7713	D3
7714	E3
7715	D2
9002	F1
9003	F1
9008	F1
9009	F1
9019	B1
9020	B4
9021	C4
9023	C4
9074	A2
9110	A1
9111	B3
9717	E4
9718	E2
9737	F4



Layout LCD Standby Audio Panel (Part 1 Bottom Side)


1
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3
4
A
B
C
D
ATTENTION : LIVE PARTS
Part 1
3537
3539
3536
7508
9110
3535
3534
2538
6149
3141
7140
2539
2534
3560
3538
2154
3176
6531
SD1G
7531
D2
6510
3562
6562
7560
3561
6508
2537
3530
3531
3532
7507
3507
2509
3508
3510
3516
3540
3541
2544
6540
7505
3544
3506
3158
6157
6150
6151
3156
6156
3157
2131
6532
3528
3172
3135
2535
3513
3134
3132
7506
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3529
3533
2540
3542
7509
6120
6148
6121
2149
2109
3123
3124
3128
6122
3113
3114
6132
6134
7532
3161
6133
6130
3512
3511
3140
3153
3171
2515
3517
7512
6511
3516
7511
3515
9019
3137
6106
3125
3100
2153
7100
3126
6142
2144
3127
5106
9111
6108
2110
3112
3109
3110
3107
3106
2103
2105
2162
2159
3105
3145
3147
3146
7105
6116
2145
3150
2123
6117
3149
6104
9020
3175
3142
2141
5105
3162
6144
2112
3160
6114
6115
7101
3104
6118
9023
6105
3117
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9021
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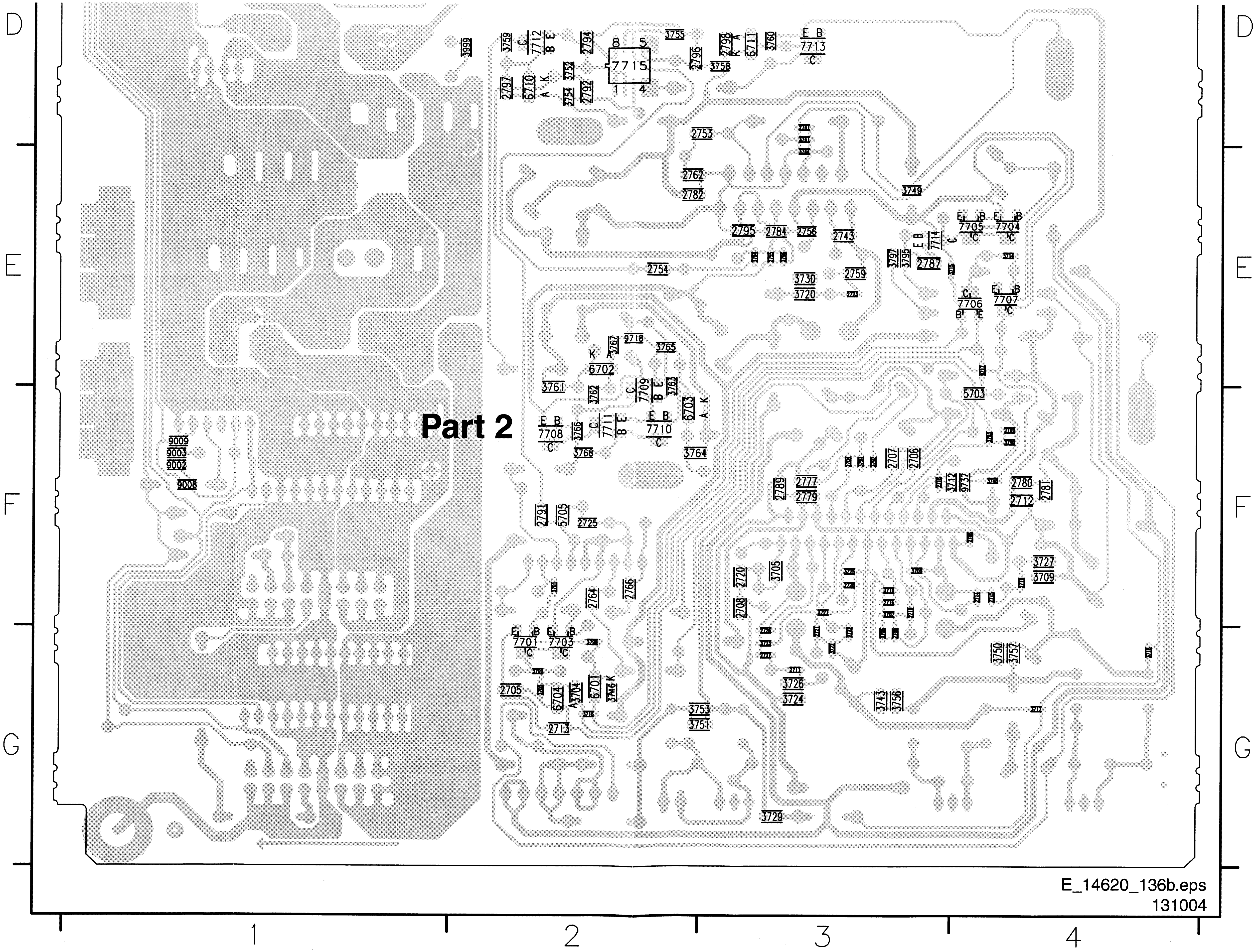
2129
3122
3755

E_14620_136a.eps
131004

Layout LCD Standby Audio Panel (Part 2 Bottom Side)


D
E
F
G
1
2
3
4
Part 2
3999
3759
7712
2797
6710
3752
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7715
3755
2796
2798
6711
3758
3760
7713
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2762
2782
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2795
2784
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2743
7714
2787
7705
7704
2754
3730
3720
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7706
7707
9718
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6702
3761
3762
7709
3763
6703
7708
3766
7711
7710
3768
3764
5703
9009
9003
9002
9008
2707
2706
2789
2777
2779
3712
9737
2780
2712
2781
2791
5705
2725
2720
2708
3705
3727
3709
2764
2766
7701
7703
2705
6704
3704
6701
3746
2713
3753
3751
3726
3724
3713
3756
3750
3757
3729

E_14620_136b.eps
131004

8. Alignments

Index of this chapter:

8.1 General Alignment Conditions
8.2 Hardware Alignments
8.3 Software Alignments
8.4 Option Settings

Note: The Service Default Mode (SDM) and Service Alignment Mode (SAM) are described in chapter 5. Menu navigation is done with the CURSOR UP, DOWN, LEFT or RIGHT keys of the remote control transmitter.

8.1 General Alignment Conditions

8.1.1 Start Conditions

Perform all electrical adjustments under the following conditions:

- Power supply voltage (depends on region):
  - **AP-NTSC:** 120 V_{AC} or 230 V_{AC} / 50 Hz (± 10%).
  - **AP-PAL-multi:** 120 - 230 V_{AC} / 50 Hz (± 10%).
  - **EU**: 230 V_{AC} / 50 Hz (± 10%).
  - **LATAM-NTSC**: 120 - 230 V_{AC} / 50 Hz (± 10%).
  - **US**: 120 V_{AC} / 60 Hz (± 10%).
- Connect the set to the mains via an isolation transformer with low internal resistance.
- Allow the set to warm up for approximately 15 minutes.
- Measure voltages and waveforms in relation to chassis ground (with the exception of the voltages on the primary side of the power supply).
  Caution: never use heatsinks as ground.
- Test probe: Ri > 10 Mohm, Ci < 20 pF.
- Use an isolated trimmer/screwdriver to perform alignments.

8.1.2 Initial Settings

Perform all electrical adjustments with the following initial settings (via the "Active Control" button on the RC):

1. To avoid the working of the lightsensor, set "Active Control" to "Off".
2. Set "Smart Picture" to "Natural".
3. Set "Active Display" to "Off"

8.1.3 Alignment Sequence

- First, set the correct options:
  - In SAM, select SERVICE OPTIONS -> OPT. NO,
  - Fill in the option settings according to the set sticker (see also paragraph "Option Settings"),
  - Select STORE OPTIONS and push "OK" on the remote control,
  - After storing, the set must be restarted!
- Warming up (>10 minutes).
- White-D alignment.

8.2 Hardware Alignments

8.2.1 12 or 24 V Backlight Voltage Alignment

Switch the set "on" and measure the voltage between pin 1 of connector 1304 and pin 1 of connector 1309 (ground). Align potmeter R3026 until this voltage is:

- 12 V_{DC} +/- 0.1 V (for Sharp displays).
- 24 V_{DC} +/- 0.1 V (for LG.Philips displays).

Caution: This voltage must be aligned very precisely: when it is too high (> 27 V), it can destroy the inverters. When it is too low (< 23 V) the backlight will not start up.

Note: The 42" models have a double PSU, therefore an extra potmeter must be aligned: measure the voltage between pin 1 of connector 1303 and pin 1 of connector 1320 (ground). Align R3U26 until this voltage is 24 V_{DC} +/- 0.1 V.

8.3 Software Alignments

Put the set in SAM mode (see the "Service Modes, Error Codes and Fault Finding" section). The SAM menu will now appear on the screen. Select ALIGNMENTS and go to one of the sub menus. The alignments are explained below.

Notes:

- All changes must be stored manually.
- If an empty EAROM (permanent memory) is detected, all settings are set to pre-programmed default values.

8.3.1 General

For the next alignments, supply the following test signals via a video generator to the RF input:

- **EU/AP-PAL** models: a PAL B/G TV-signal with a signal strength of at least 1 mV and a frequency of 475.25 MHz
- **US/AP-NTSC** models: an NTSC M/N TV-signal with a signal strength of at least 1 mV and a frequency of 61.25 MHz (channel 3).
- **LATAM** models: an NTSC M or PAL M TV-signal with a signal strength of at least 1 mV and a frequency of 61.25 MHz (channel 3).

Luma Gain
Fixed setting of "1".

Delta Luma Gain for Aux (only when a 2nd Tuner is present)
Fixed setting of "0 dB".

IF AFC
Alignment procedure:

1. During the IF AFC-parameter adjustment, one can see OSD feedback on the screen.
2. The OSD feedback can give 4 kinds of messages:
3. The first item ("IN/OUT") informs you whether you are in or out of the AFC-window.
4. The second item ("HIGH/LOW") informs you whether the AFC-frequency is too high or too low.

Table 8-1 AFC

AFC-window	AFC-frequency vs. reference
Out	High
In	High
[In]	[Low]
Out	Low

1. Adjust the IF AFC parameter until the **first** value is within the AFC window (= IN).
2. Next, adjust the IF AFC parameter until the **second** value is LOW.

IF LPRIME AFC (only for EU sets)
Same procedure as described above, but with SECAM L/L' signal source.

TUNER AGC
Measure the DC voltage on pin 1 of the (main) Tuner. You can adjust this voltage by adjusting the TUNER AGC item in the

SAM menu. Alignment is correct when the DC voltage is just below 3.5 V.

IF AFC Tuner 2

Use the same procedure as described above (under IF AFC) with the set switched to the DW source.

IF LPRIME AFC Tuner 2

Use the same procedure as described above (under IF LPRIME AFC) with the set switched to the DW source.

Tuner AGC Tuner 2

Use the same procedure as described above (under TUNER AGC) with the set switched to the DW source. Measure on pin 1 of the DW Tuner.

Blend Intensity

Use this alignment when you replace the microcontroller, NVM, or the EBILD. It aligns the level of transparency of the menu-picture blended into the main-picture. Fixed setting of "16".

8.3.2 2fh ADC Alignment

Only necessary to align, when the A/D convertor or NVM is replaced. Use the default values as mentioned in the table.

Table 8-2 "2fH ADC alignment"

Menu item	Value
Red Gain RGB	106
Blue Gain RGB	112
Green Gain RGB	133
Red Offset RGB	40
Blue Offset RGB	41
Green Offset RGB	43
Red Gain YPbPr *	115
Blue Gain YPbPr *	118
Green Gain YPbPr *	102
Red Offset YPbPr *	59
Blue Offset YPbPr *	56
Green Offset YPbPr *	35
* = only for sets with YPbPr input	

8.3.3 White D Alignment

- Set ACTIVE CONTROL to "Off".
- In the TV -> PICTURE user menu set:
  - DYNAMIC CONTRAST to "Off".
  - COLOUR ENHANCEMENT to "Off".
  - COLOUR to "0".
  - CONTRAST to "100".
  - BRIGHTNESS to "43".
- Go to the SAM and select ALIGNMENTS -> WHITE POINT.

Method 1 (with colour analyser):

- Use a 100% white screen as input signal and set the following values:
  - COLOR TEMPERATURE: "Tint to be aligned".
  - WHITEPOINTRED: "127".
  - WHITEPOINTGREEN: "127".
  - WHITEPOINTBLUE: "127".
  - RED BL OFFSET: "7"
  - GREEN BL OFFSET: "7".
- Measure with a calibrated (phosphor- independent) colour analyser in the centre of the screen. Use a contactless analyser (e.g. Minolta CA-210) to align an LCD TV. The colour analyser may not touch the screen surface. Consequently, the measurement needs to be done in a dark environment.
  Note: The colour analyser needs to be calibrated for LCD!
- Adjust, by means of decreasing the value of one or two whitepoints, the correct x,y coordinates (see table "White D alignment values"). Tolerance: dx,dy: ± 0.004.
- Repeat this step for the other Colour Temperatures that need to be aligned.
- When finished press "Store" to store the aligned values to the NVM.

Table 8-3 White D alignment values

Coordinates	Cool	Normal	Warm
X	0.276	0.287	0.314
Y	0.281	0.292	0.320

Method 2 (without colour analyser):

If you do not have a colour analyser, you can use the default values. This is the next best solution. The default values are average values coming from production (statistics).

1. Select a COLOUR TEMPERATURE (e.g. COOL, NORMAL, or WARM).
2. Set the RED, GREEN and BLUE default values according to the values in the "Tint settings" table.
3. When finished press "Store" to store the aligned values to the NVM.

Table 8-4 Tint settings

	Cool			Normal			Warm		
	32"	37"	42"	32"	37"	42"	32"	37"	42"
R	127	125	126	127	127	127	127	127	127
G	126	127	122	123	127	120	116	121	114
B	112	125	127	104	118	116	86	101	98

8.3.4 Lum. Del.

With this Luminance Delay alignment, you place the luminance information exactly on the chrominance information (brightness is pushed onto the colour). Use a colour bar / grey scale pattern as test signal.

- **LUM. DELAY PAL BG:** Apply a PAL BG colour bar / grey scale pattern as a test signal. Adjust this parameter until the transients of the colour part and black and white part of the test pattern are at the same position.
  Default value is "7".
- **LUM. DELAY PAL I:** Apply a PAL I colour bar/grey scale pattern as a test signal. Adjust this parameter until the transients of the colour part and black and white part of the test pattern are at the same position.
  Default value is "9".
- **LUM. DELAY SECAM:** Apply a SECAM colour bar/grey scale pattern as a test signal. Adjust this parameter until the transients of the colour part and black and white part of the test pattern are at the same position.
  Default value is "9".
- **LUM. DELAY BYPASS:** apply a NTSC colour bar/ greyscale pattern as a test signal. Adjust this value until the transients of the colour and black and white part of the test area are at the same position.
  Default value is "6".

8.4 Option Settings

8.4.1 Introduction

The microprocessor communicates with a large number of I^{2}C ICs in the set. To ensure good communication and to make digital diagnosis possible, the microprocessor has to know which ICs to address. The presence / absence of these specific ICs (or functions) is made known by the option codes.

Notes:

- After changing the option(s), save them with the STORE command.
- The new option setting is only active after the TV is switched "off" and "on" again with the Mains switch (the EAROM is then read again).

8.4.2 Dealer Options

Table 8-5 Dealer option overview

Menu name	Subjects	Options	Description
Personal Options	Picture Mute	Yes	Picture (blue) mute active in case no picture detected
		No	Noise in case of no picture detected
	Virgin Mode	Yes	TV starts up (once) with language selection menu after mains switch "on" for the first time (virgin mode)
		No	TV does not starts up (once) with language selection menu after mains switch "on" for the first time (virgin mode)
	Auto Store Mode (only for EU and AP-PAL/M sets)	None	Autostore mode disabled (not in installation menu)
		PDC-VPS	Autostore mode via ATS (PDC/VPS) enabled
		TXT page	Autostore mode via ACI enabled
		PDC-VPS-TXT	Autostore mode via ACI or ATS enabled
	TXT Preference (only for EU and AP-PAL sets)	TOP	Preference to TOP Teletext
		FLOF	Preference to FLOF Teletext
	DVD door lock (only for sets with integrated DVD)	Yes	To disable the DVD tray opening function
		No	To enable the DVD tray opening function
	AmbiLight Demo (only when Ambi Light option is "on")	Yes	Activation of AmbiLight demo via local "MENU" button possible
		No	Activation of AmbiLight demo via local "MENU" button not possible

8.4.3 SERVICE OPTIONS

Select the sub menu's to set the initialisation codes (options) of the set via text menus.

Table 8-6 Service option overview

Menu-item	Subjects	Options	Description
Dual Screen	PIP/Dual Screen	Yes / No	Feature present / not present
	Text/EPG	Yes / No	Feature present / not present
	DS/PIP Tuner	Yes / No	Feature present / not present (only selectable if PIP/Dual Screen option is "on")
Teletext	Flash RAM	Yes / No	Flash RAM present / not present
	NexTView type	None	Feature not present
		Textguide only	Feature present, but only as text guide
		Nextview 2c3	Feature present, for countries that support NexTView
Display	Screen	Value "000"	42 inch PDP SDI
		Value "001"	50 inch PDP SDI
		Value "002"	42 inch PDP FHP
		Value "003"	30 inch LCD LPL
		Value "004"	37 inch LCD LPL
		Value "005"	42 inch LCD LPL
		Value "006"	32 inch LCD Sharp
		Value "007"	42 inch PDP SDI VGA
		Value "008"	37 inch PDP FHP

Menu-item	Subjects	Options	Description
Video Repro	Featurebox type	1050i/1250i	HD input
		Eagle 1B	"Eagle version 1B" present (Pixel Plus 1)
		Eagle 1C	"Eagle version 1C" present (Pixel Plus 2)
	Lightsensor	Yes / No	Feature present / not present
	3D Combfilter	Yes / No	Only selectable when Columbus is present
	Improved Noise Reduction	Yes / No	Only selectable when Columbus is present
	PixelPlus Version	1	Standard PP: only selectable with Eagle 1C
		2	Improved PP: only selectable with Eagle 1C
	720p	Yes / No	Enable for high resolution displays
Source Selection	EXT3 1Fh (2003)	Yes / No	Not selectable
Audio Repro	Acoustic System	FTV Top	Cabinet design (xxPF9986 and xxPF9996 with NXT). See styling 499 in Product Survey.
		Soft Wrap	Cabinet design (xxPF9956 and xxPF9966 standard). See styling 496 in Product Survey.
		Wrap	Cabinet design (xxPF9956 and xxPF9966 standard). See styling 500 in Product Survey.
		FTV2.3	Cabinet design (for future)
	AVL	Yes / No	Enable / disable Automatic Volume Limiter
Miscellaneous	Home Cinema	Yes / No	Model with / without Home Cinema Link (EU only)
	AmbiLight	Yes / No	Rear lighting feature present / not present
	Integrated RC	Yes / No	Control pheripheral equipment via TV IR receiver (EU only)
	Tuner type	UV1316 / TEDE9	Model with Philips tuner / Alps tuner
	P50 DVD menu line	Yes / No	Enable / disable DVD control via user menu with TV RC (EU only)
	Hotel Mode	Yes / No	Enable / disable Hotel Mode
	Intelligent Lights	Yes / No	Proximity sensor present / not present
Option no.	Group 1		Group 1 option code overview (see set sticker)
	Group 2		Group 2 option code overview (see set sticker)

8.4.4 OPT. NO. (Option numbers)

Select this sub menu to set all options at once (expressed in two long strings of numbers).

Table 8-7 Option number overview (indication only, use sticker inside set as reference)

Model Number	12 NC	Options Group 1	Options Group 2
32PF9976/12 (with Sharp LCD)	8670 000 21855	46436 40992 49472 04096	04118 01537 16448 49601
32PF9976/12 (with LPL LCD)	8670 000 21855	46436 40992 49472 04096	04118 01025 16448 00449
32PF9986/12 (with Sharp LCD)	8670 000 20663	62948 40992 49488 04097	04118 01537 16480 49632
32PF9986/12 (with LPL LCD)	8670 000 20663	62948 40992 49488 04097	04118 01025 16480 00480
37PF9986/12	8670 000 20667	62948 40992 49488 04097	04118 01025 16480 03040
42PF9986/12	8670 000 20669	62948 40992 49488 04097	04118 01281 16480 03296

An option number (or "option byte") represents a number of different options. When you change these numbers directly, you can set all options very quickly. All options are controlled via eight option numbers.
When the EAROM is replaced, all options will require resetting. To be certain that the factory settings are reproduced exactly, you must set both option number lines.
Note: You can find the correct option numbers on a sticker inside the TV set.

Example: The options sticker gives the following option numbers:

- 62948 40992 49488 04097
- 04118 01537 16480 49632

The first line (group 1) indicates options 1 to 4, the second line (group 2) options 5 to 8.
Every 5-digit number represents 16 bits (so the maximum value will be 65536 if all options are set).
When all the correct options are set, the sum of the decimal values of each Option Byte (OB) will give the option number.

Note: As the info was not up-to-date at the time of writing, the option number explanation is not given in this manual. As soon it becomes available, a Service Info or update manual will be send via the appropriate channels

Table 8-8 Option overview

Byte	Bit (dec. value)	Subject	Options	Settings (in decimal values)	Remarks
1	0 (1)	Video Repro	Feauture Box Type	3= Eagle 1B, 4= Eagle 1C, 5= 1050i/1250i	
	1 (2)				
	2 (4)				
	3 (8)	Personal	Ambi Light Demo	0= Off, 8= On	
	4 (16)	Video Repro	Auto Scavem	0= No, 16= Yes	Only selectable for CRT sets.
	5 (32)		Improv. Noise Reduction	0= No, 32= Yes	Fixed to "Yes" in case Columbus is present
	6 (64)		Light Sensor	0= No, 64= Yes	
	7 (128)	Miscellaneous	Ambi Light	0= No, 128= Yes	
	8 (256)	Video Repro	Digital Option	0 (No)= Dig. Natural Motion (for PP1) or PixelPlus (for PP2), 256 (Yes)= PixelPlus (for PP1) or PixelPlus2 (for PP2)	This depends on the "Pixel Plus Version" option (see also Byte 1 - bit 14), and gives the info that is visible in the user menu.
	9 (512)		n.a.		
	10 (1024)	Source Selection	1152i	0= Off, 1024= On	
	11 (2048)	Video Repro	n.a.		
	12 (4096)		Signalling Bits	0= No, 4096= Yes	Fixed to: "Yes" in EU and AP-P, "No" for other versions.
	13 (8192)		3D Comb Filter	0= No (2D Comb), 8192= Yes (3D Comb)	
	14 (16384)		PP (Pixel Plus) Version	0= “1”, 16384= “2”	Only selectable when "Feature Box" option is "Eagle 1C". See also Byte 1- bit 8 "Digital Option".
	15 (32768)		720p	0= No, 32768= Yes	
2	0 (1)	Audio Repro	n.a.		
	1 (2)		Dolby Pro Logic	0= No, 2= Yes	
	2 (4)		Virtual Rear Speakers	0= No, 4= Yes	Fixed to: "Yes" for sets with Dolby Pro Logic.
	3 (8)		Cordless Rear Speakers	0= No, 8= Yes	Fixed to: "No" for all versions, except for EU.
	4 (16)		Dolby Digital	0= No, 16= Yes	When Dolby Digital is "Yes", the AVL (Byte 8 - bit 6) option must be "No".
	5 (32)		Virtual Dolby	0= No, 32= Yes	Fixed to: "No" in case the "Dolby Pro Logic" option (Byte 2 - Bit 1) unequals "none".
	6 (64)		Subwoofer	0= No Subwoofer present, 64= Subwoofer present.	
	7 (128)				
	8 (256)	Chassis/Region	Chassis	0= EM6, 256= EM5, 512 = EM3	FTx2.x= EM6
	9 (512)				
	10 (1024)				
	11 (2048)				
	12 (4096)	Teletext	n.a.		
	13 (8192)		Flash RAM	0= No, 8192= Yes	NexTView type 2C3 and 2 need a Flash RAM.
	14 (16384)		NexTView type	0= None, 16384= Textguide only, 32768= NexTView 2C3, 49152= NexTView 2	Only available for EU.
	15 (32768)				
3	0 (1)	n.a.	n.a.		
	1 (2)	n.a.	n.a.		
	2 (4)	n.a.	n.a.		
	3 (8)	n.a.	n.a.		
	4 (16)	Dual Screen	PIP/Dual Screen	0= No, 16= Yes	
	5 (32)		n.a.		
	6 (64)		TXT/EPG Dual Screen	0= No, 64= Yes.	Fixed to: "Off" for AP-N, US, and LA versions.
	7 (128)		n.a.		
	8 (256)	Display	CRT type (Aspect Ratio)	0= 4:3, 256= 16:9	
	9 (512)		Picture Rotation	0= No, 512= Yes	Only selectable for CRT sets.
	10 (1024)		Monitor	0= No, 1024= Yes	Reserved for Flat TV monitor.
	11 (2048)	Miscellaneous	Integrated Radio	0= No, 2048= Yes	
	12 (4096)		Stand Alone	0= No, 4096= Yes	Reserved for Flat TV monitor.
	13 (8192)		Integrated DVD	0= No, 8192= Yes	
	14 (16384)		Home Cinema	0= No, 16384= Yes	Fixed to: "No" in all versions except for EU.
	15 (32768)		Integraded RC	0= No, 32768= Yes	Fixed to: "No" in all versions except for EU.
4	0 (1)	Dual Screen	DS/PIP (Aux) Tuner	0= Aux Tuner not present, 1= Aux Tuner present	Only selectable in the EU version, provided the "PIP/Dual Screen" option is "Yes".
	1 (2)		DS/PIP (Aux) Tuner Type	0= UV1316, 2= TEDE9	
	2 (4)	Miscellaneous	38.0 (or China) IF	0= No, 4= Yes	Fixed to: "No" in all versions except for AP-P.
	3 (8)		Tuner Type	0= UV1316, 8= TEDE9	
	4 (16)	Teletext	n.a.		
	5 (32)		n.a.		
	6 (64)		n.a.		
	7 (128)		n.a.		
	8 (256)	Miscellaneous	Integrated Dig. Module	0= No, 256= Yes	
	9 (512)		Integrated HDD	0= No, 512= Yes	
	10 (1024)		n.a.		
	11 (2048)		n.a.		
	12 (4096)		Anti Aging	0= No, 4096= Yes	Fixed to: "Yes" for FTV.
	13 (8192)	Personal	DVD Door Lock	0= No, 8192= Yes	
	14 (16384)		n.a.		
	15 (32768)		n.a.		

Byte	Bit (dec. value)	Subject	Options	Settings (in decimal values)	Remarks
5	0 (1)	Personal	n.a.		
	1 (2)		Auto Store Mode	0= None, 2= PDC/VPS, 4= TXT Page, 6= PDC/VPS/TXT Page	Fixed to: "None" in the AP-N and US versions.
	2 (4)				
	3 (8)		2CS Korea	0= BTSC, 8= Korean Stereo	As the MSP can not automatically detect if Korean stereo (2CS) or BTSC is transmitted, this option is needed to tell the MSP what detection should be done.
	4 (16)		Blue (or Picture) Mute	0= No, 16 = Yes	
	5 (32)		n.a.		
	6 (64)		Virgin Mode	0= No, 64= Yes	
	7 (128)	Miscellaneous	Hotel Mode	0= No, 128= Yes	
	8 (256)	Personal	Flex TV Demo	0= No, 256= Yes	
	9 (512)		n.a.		
	10 (1024)		n.a.		
	11 (2048)		n.a.		
	12 (4096)		TXT Preference	0= Top, 4096= FLOF	Only available in the EU version.
	13 (8192)		n.a.		
	14 (16384)		n.a.		
	15 (32768)		n.a.		
6	0 (1)	Miscellaneous	P50 DVD Menu Line	0= No, 1= Yes	Fixed to: "No" in all versions except for EU.
	1 (2)		n.a.		
	2 (4)		n.a.		
	3 (8)		n.a.		
	4 (16)	Chassis/Region	Region	0= EU, 16= AP-P, 32= AP-N, 48= US, 64= Latam, 80= Australia	
	5 (32)				
	6 (64)				
	7 (128)				
	8 (256)	Display	Screen	"000" (0)= 42-inch PDP (SDI), "001" (256)= 50-inch PDP (SDI), "002" (512)= 42-inch PDP (FHP), "003" (768)= 30-inch LCD (LPL), , "004" (1024)= 37-inch LCD (LPL), "005" (1280)= 42-inch LCD (LPL), "006" (1536)= 32-inch LCD (Sharp), "007" (1792)= 42-inch PDP (SDI) VGA, "008" (2048)= 37-inch PDP (FHP).	Fixed to "0" in case of CRT.
	9 (512)				
	10 (1024)				
	11 (2048)				
	12 (4096)				
	13 (8192)				
	14 (16384)				
	15 (32768)				
7	0 (1)	Source Selection	EXT4 1fH	0= No, 1= Yes	
	1 (2)		EXT1 2fH	0= No, 2= Yes	
	2 (4)		n.a.		
	3 (8)		n.a.		
	4 (16)		n.a.		
	5 (32)		EXT3 1fH	0= No, 32= Yes	
	6 (64)		DVI/VGA	0= No, 64= Yes	
	7 (128)		HDMI (Europe)	0= No, 128= Yes	
	8 (256)		AV3 1fH	0= No, 256= Yes	
	9 (512)		AV1 2fH	0= No, 512= Yes	
	10 (1024)		AV2 2fH	0= No, 1024= Yes	
	11 (2048)		n.a.		
	12 (4096)		n.a.		
	13 (8192)		n.a.		
	14 (16384)		n.a.		
	15 (32768)		HDMI (Non Europe)	0= No, 32768= Yes	
8	0 (1)	Audio Repro	Acoustic System	0= FTV-Top (499), 1= Soft Wrap (496, 498), 2= Wrap (496, 498), 3= FTV2.3 (505), 4= FL9 Monitor (n.a.), 5= FL10 (n.a.), 6= FL11 or FL11-upgr. (380, 382, 406, 425, 426, 534), 7= FL12 (296, 305, 395, 408, 428, 444), 8= FL14 (n.a.), 9= PV02 (462), 10= FL13A (456), 11= Soft Design Line (336, 383), 12= Tech Design Line (419), 14= FL13B (456), 15= Others	Used for setting dynamic audio parameters. Between brackets the styling numbers are mentioned as listed in the quarterly Product Survey.
	1 (2)				
	2 (4)				
	3 (8)				
	4 (16)	Miscellaneous	n.a.		
	5 (32)		Intelligent Lights	0= No, 32= Yes	
	6 (64)	Audio Repro	AVL	0= No, 64= Yes	Switch to "No" when Dolby Digital is present.
	7 (128)	???	1080i Screen	0= 2fH path, 128= 3fH path	
	8 (256)	Display	CRT Size	0= 28", 256= 32", 512= 36" MEC, 768= 29", 1024= 34", 1280= 38", 1536= 28" Mk2, 1792= 36" PH, 2048= 32" MEC, 2304= 32" PH, 2560= 30", 2816= 37", 3072= 42", 3328= 50", 3840= Others	
	9 (512)				
	10 (1024)				
	11 (2048)				
	12 (4096)		Anti Moire Filter	0= No, 4096= Yes	Only for CRT
	13 (8192)		Display Type	0= LCD (LPL), 8192= PDP, 16384= CRT, 24576= LCoS, 32768= PTV, 40960= LCD (AUO), 49152= LCD (Sharp)	
	14 (16384)				
	15 (32768)				

9. Circuit Descriptions, Abbreviation List, and IC Data Sheets

Index of this chapter:

9.1 Introduction
9.2 Power Supply LCD
9.3 Video
9.4 Synchronisation
9.5 Audio
9.6 Control
9.7 Proximity Sensor (if present)
9.8 Ambient Light (if present)
9.9 Software Upgrading
9.10 Abbreviation list
9.11 IC Data Sheets

Note:

- Only **new** (not recently published) circuits are described here. For the other circuit descriptions, see a.o. the FTL13 and EM5.3 manuals.
- In the following text, the model year 2003 refers to the FTL13x chassis, while the model year 2004 refers to the new FTL2.x chassis.
- Figures can deviate slightly from the actual situation, due to different set executions.
- For a good understanding of the following circuit descriptions, please use the wiring, block and circuit diagrams. Where necessary, you will find a separate drawing for clarification.

9.1 Introduction

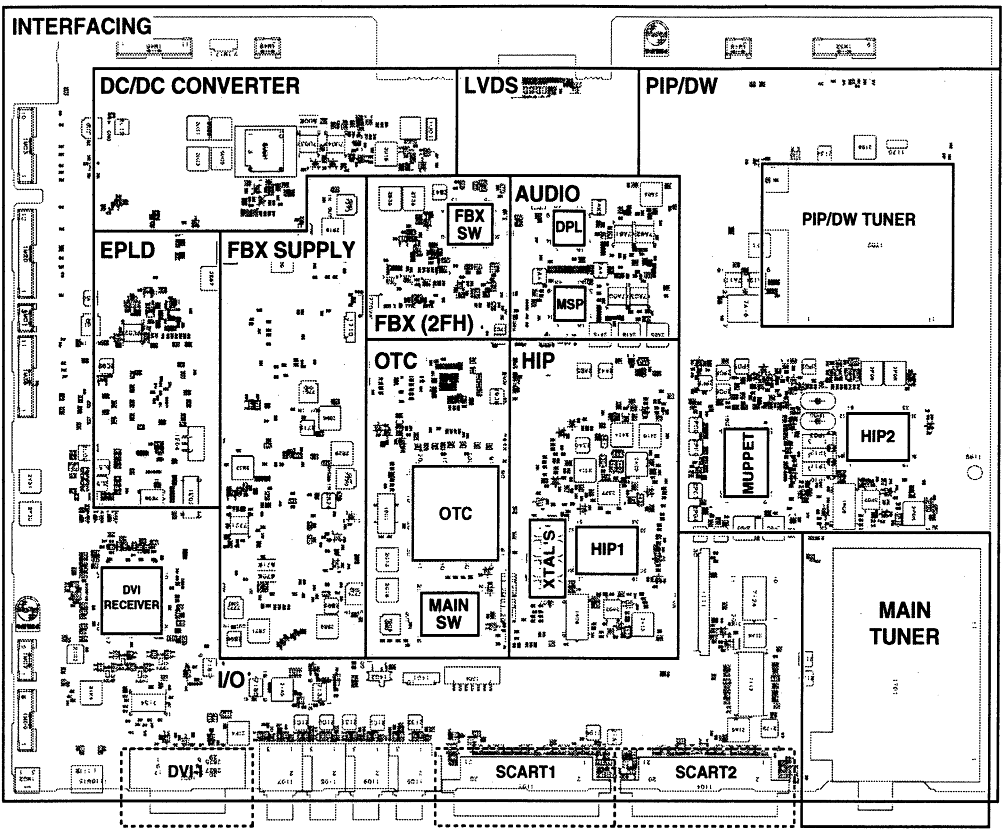
This chassis contains, compared to its predecessor, the following **new** features/components:

- **New Small Signal Board (SSB)** with lower height due to a.o. flat mounted tuners. This board is completely shielded (i.s.o. only the FBX).
- **FEM (Falconic Embedded Memories):** this is a new Falconic IC with internal Field memories and jagged line removal.
- **Improved 2D/3D Comb filter:** The new key components are Columbus and SDRAM. When SDRAM is used, a 3D comb filter (or temporal comb filtering) is possible. Without SDRAM, only 2D comb filtering (or spatial comb filtering) is possible. This is improved with respect to the previous 2D comb filter.
- **Improved noise reduction:** This is a second function of the Columbus and SDRAM. Noise reduction is possible without SDRAM (2D) and with SDRAM (3D).
- **Pixel Plus 2:** Eagle 1B is replaced by Eagle 1C.
  - Algorithms for Horizontal LTI and Vertical LTI are improved.
  - "Thin Line Control" as part of the sharpness control.
  - "Face Depending Peaking" should allow less sharpness in faces different from the rest of the picture. This could be used to anti age faces versus the rest of the picture.
  - "Vivid Colours 1" will result in more saturated colours.
  - The range/amount of "Blue Stretch" is extended.
  - More steps of "Green Enhancement".
  - Improved "Colour Dependent Sharpness".
  - Increased range of skin gain and skin tone.
- **Proximity sensor:** to detect a motion when the customer is approaching the set, and then to light up the LEDs on the set for 6 s (detection area is 1.5 - 2 m).
- **Improved/new AutoTV functions:** AutoTV 2004 has some new hardware configurations. Applying an LCD panel requires to have contrast reserve and backlight regulation. Applying a PDP panel requires to have contrast reserve as well (no backlight regulation). The Eagle 1C is detected automatically. Columbus improved noise reduction is used when the Columbus is present.
- **Ambient Light:** To be able to control lamps at the rear of the TV with respect to the measured ambient light level from the light sensor or the picture content, a control output from AutoTV has been foreseen.
- **DVI input** for Europe, **HDMI input** for NAFTA and AP.

The chassis consists of a full sized SSB, two Power Supply boards (one for the stand-by supply and one for the main supply), and some smaller PWBs for I/O and Control functions. The main functionalities are:

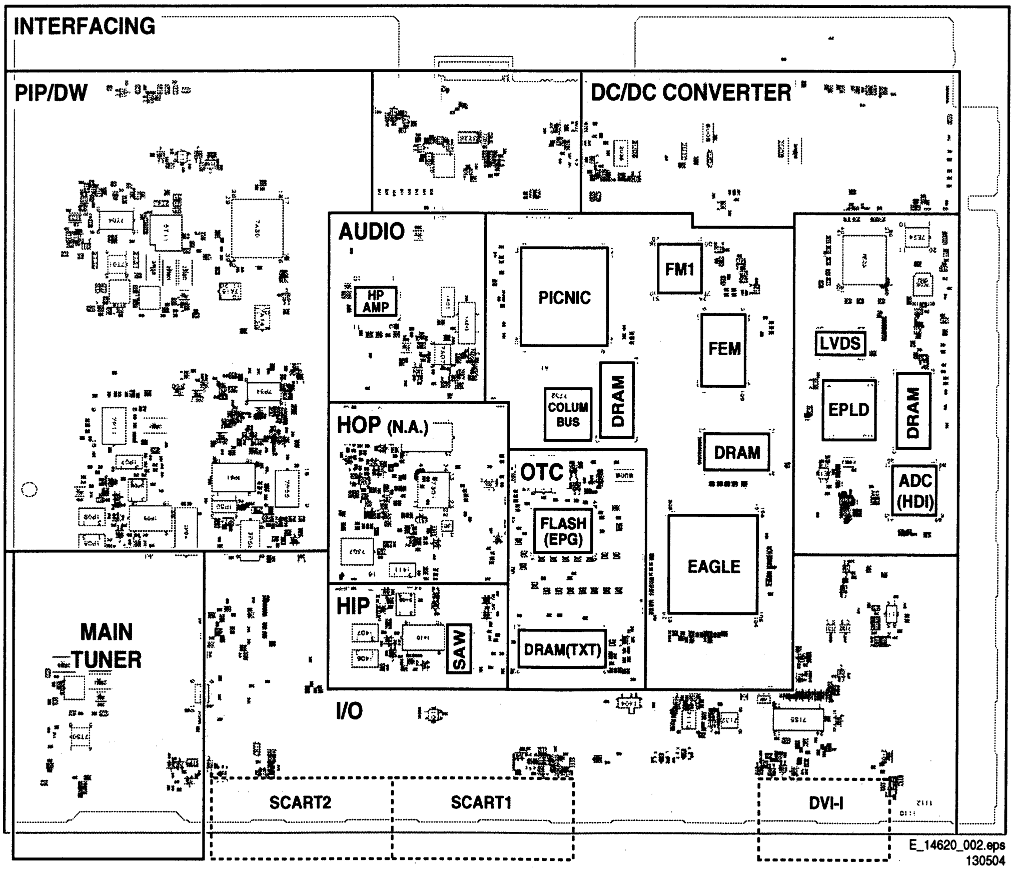
- **Stand-by Supply**: The Stand-by Supply is a new board that also includes the (class D) Audio Amplifier and the power supply interfacing to the LCD panel.
- **Main Supply**: LLC power supply, based on the one used in the plasma monitors (FMxx chassis). This supply (single sided) is built up very conventional, with hardly any surface mounted components on the copper side.
- **SSB**: Core TV functionalities, being TXT/control, video and audio decoding, feature box, video featuring, and sync/geometry control. The SSB is a high tech module (four layer, two sides reflow technology, full SMC) with very high component density and full shielding for EMC-reasons. Despite this, it is designed in such a way, that repair on component level is possible. To achieve this, attention was paid to:
  - Clearance around surface mounted ICs (for replacing).
  - Detailed diagnostics and fault finding is possible via ComPair.
  - Software upgrading (only for main software) is possible via ComPair.

On the next drawings, it is indicated where all the functional cells are located on the SSB (mind you that this is just an indication):


INTERFACING
DC/DC CONVERTER
LVDS
PIP/DW
EPLD
FBX SUPPLY
FBX SW
AUDIO
DPL
MSP
FBX (2FH)
PIP/DW TUNER
OTC
HIP
HIP2
MUPPET
OTC
XTAL'S
HIP1
DVI RECEIVER
MAIN SW
MAIN TUNER
I/O
DVI
SCART1
SCART2

E_14620_012.eps
130504

Figure 9-1 SSB top view


INTERFACING
PIP/DW
DC/DC CONVERTER
AUDIO
HP AMP
PICNIC
FM1
FEM
LVDS
EPLD
DRAM
COLUM BUS
DRAM
DRAM
HOP (N.A.)
OTC
FLASH (EPG)
EAGLE
ADC (HDI)
MAIN TUNER
HIP
SAW
DRAM(TXT)
I/O
SCART2
SCART1
DVI-I

E_14620_002.eps
130504

Figure 9-2 SSB bottom view

9.2 Power Supply LCD

9.2.1 General

Changes in 2004:

- All displays:
  - The sound supplies are +18V and -18V.
  - A loudspeaker DC protection is added (via TS7030 on the Main Supply).
  - A POK (Power OK) is generated when the 12V from the Aux supply is stabilised.
  - The STAND-BY supply is integrated in the Sound Amplifier panel.
- For **Sharp** displays (32") only:
  - 12V supply for the lamps i.s.o. 24V.
  - 12V to 5V DC/DC converter on SSB.

9.2.2 Block Diagram

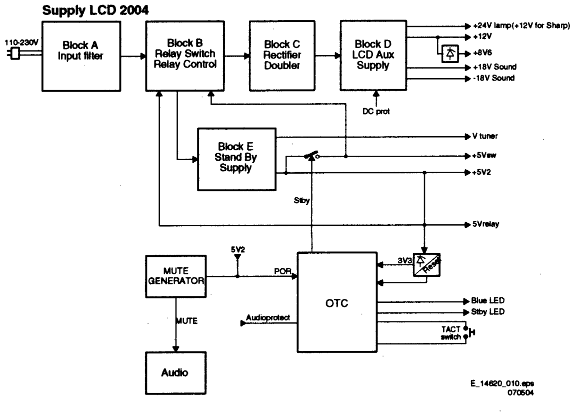

Supply LCD 2004
110-230V
Block A Input filter
Block B Relay Switch Relay Control
Block C Rectifier Doubler
Block D LCD Aux Supply
+24V lamp(+12V for Sharp)
+12V
+8V6
+18V Sound
-18V Sound
DC prot
Block E Stand By Supply
V tuner
+5Vsw
+5V2
Stby
5Vrelay
5V2
MUTE GENERATOR
POR
3V3
OTC
Blue LED
Stby LED
TACT switch
MUTE
Audioprotect
Audio
E_14620_010.eps 070504

Figure 9-3 Block diagram LCD power supply

Main Supply (Block "D")

Diversity

- Mains input voltage diversity (1308):
  - EU: 198 - 264 V_{AC}.
  - US: 108 - 132 V_{AC} (doubler).
  - AP multi: 90 - 275 V_{AC} (auto doubler with AVS10 control IC and triac).
  - China: 160 - 270 V_{AC}.
- Mains filter diversity:
  - EU, China: 1 x mains filter + harmonic coil.
  - US, AP: 2 x mains filter + inrush current resistor.
- Screen size diversity:
  - One module for 30" to 37" sets.
  - Two (almost identical) modules on one PWB for 42" sets.

Specifications

- 12 V / 3 A on connector 1304 (for Ambient Light and to generate +8V6).
- 24 V / 5 A for LCD backlight on connector 1304 (for Sharp 12 V, 9 A).
- +18V, -18V sound on connector 1M02.
- +8V6 (derived from +12V from the Main Supply, switched "off" in Stand-by).
- Output voltage: over-voltage protection of resonant supply.
- Output current protection of resonant supply.
- Current protection at some safety fault conditions.

Stand-by mode

- The resonant supply is switched "off" via relay 1450 that is driven by the Stand-by Supply (via connector 1305).

Outputs

- 130-400 V_{DC} (full range) for Stand-by Supply (connector 1306).
- Mains over-voltage and safety protection for Stand-by Supply (connector 1307).

Inputs

- Relay drive voltage (for STAND-BY/ON mode) on connector 1305.
- DC_PROT signal to protect loudspeakers when there is a DC voltage across the loudspeakers (1M02).

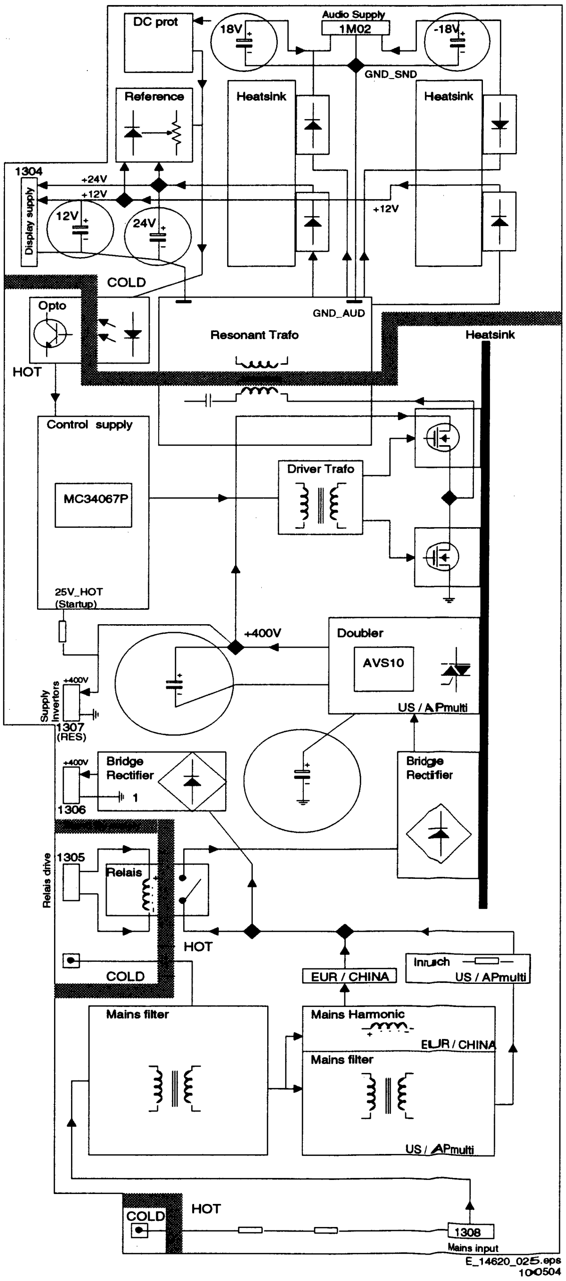

DC prot
18V
Audio Supply
1M02
-18V
GND_SND
Reference
Heatsink
Heatsink
1304
+24V
+12V
Display supply
12V
24V
+12V
COLD
Opto
GND_AUD
Resonant Trafo
Heatsink
HOT
Control supply
Driver Trafo
MC34067P
25V_HOT (Startup)
+400V
Doubler
AVS10
US / APmulti
Supply Inverters
+400V
1307 (RES)
+400V
Bridge Rectifier
1
1306
Bridge Rectifier
Relais drive
1305
Relais
HOT
COLD
EUR / CHINA
Inrush
US / APmulti
Mains filter
Mains Harmonic
EUR / CHINA
Mains filter
US / APmulti
COLD
HOT
1308
Mains input
E_14620_025.eps 100504

Figure 9-4 Functional diagram Main Supply (one module)

Stand-by Supply (Block "E")

The Stand-by Supply is based upon the "Fly Back Converter" principle. A description of this principle can be found in the FM2x Service Manuals.

Specifications
- Class D audio amplifier on same panel.
- Low profile.
- Full range (90 - 270 V_{AC}) and for all screen sizes (however NOT exchangeable due to component diversity).

Outputs
- +5V2.
- +5V_SW (switched "off" in Stand-by).
- V_TUN (Tuner voltage, switched "off" in Stand-by).

Inputs
- 130-400 V_{DC} from the Mains Filter panel (1306).
- STAND-BY_INFO from SSB (1M03).
- Over-voltage / safety protection from the Main Supply (1307 -> 6150/51/53 -> 7150 -> 7505/09 -> 7560).
  - Protection against over-voltage of the mains.
  - Protection against short-circuit of mains elco's with doubler.

Interfacing between SSB and Main Supply
- +24V (or +12V) from MF supply (1304) to Display (backlight) (1312, 1313, or 1314, 1315 or 1316, 1317).
- +12V from MF supply (1304) to SSB (1M46) and Ambient Light circuit (1M10).

DC/DC Converter (only for Sharp displays)

The DC/DC converter, which is present on the SSB, is based upon the "Synchronous Buck Converter" principle. A description of this principle can be found in the FTL13 Service Manual.

9.2.3 Start-up sequence

Connect the mains voltage
1. A voltage of 130-400 V_{DC} (depends on region) will be available at the Stand-by Supply panel.
2. The +5V2 becomes available for the SSB.

Close the functional switch
1. +5V2_RELAY_IO will be present (= supply for relay and P). A POR is generated.
2. If STAND-BY bit is "low", the +5V_SW will be present for the SSB.
3. The relay is closed.
4. The Main Supply will start up.
5. The +24V (+12V for Sharp displays) and the Audio Supply becomes available.
6. +12V ready from MF panel -> +8V6 on Stand-by Supply panel is ready to SSB

9.2.4 Power States

There are four different power states. Their characteristics are summarised in Table "Power states".

Table 9-1 Power states

Power States	Switch	LCD
OUT (Mains cord disconnected)	X	No power.
OFF	OFF	Stand-by supply is working. Main supply not working. 2003: OTC is not powered. 2004: OTC is powered and is in low power stand-by. No LED is “on”. No P50 or EPG. Proximity sensor is OFF. No time extraction started. No ambient light. RC6 ignored.
STAND-BY (1)	ON	Stand-by supply is working. Red LED is “on” in EU and US.
SEMI STAND-BY (Going to ON)	ON	Stand-by supply is working. Main supply is working. LCD and LCD backlight not active. EPG loading and P50 recording are possible (EU). Time extraction (EU and US). 2003: Red and Green LEDs are “on”. 2004: Blue LED is “on”.
ON	ON	The set is working. 2003: Green LED is “on” in EU and US. 2004: Blue LED is “on”.
SEMI STAND-BY (Coming from ON)	ON	Stand-by supply is working. Main supply is working. LCD and backlight not active. EPG loading and P50 recording are possible (EU). 2003: Red and Green LEDs are “on”. 2004: Red LED is “on”.
SEMI STAND-BY (Ambient light ON)	ON	Stand-by supply is working. Main supply is working. LCD and backlight not active. Red LED is “on”.

(1) Stand-by, entered via the remote or via a protection. A special case of STAND-BY state is SERVICE STAND-BY STATE. It can be entered by a service engineer with a “Dealer Service Tool”. In this state, an IR LED can be used for Diagnostics (for reading error codes). It is the starting condition for the “stepwise start-up".

Notes:
- Region US uses a red LED for STAND-BY and a blue LED for ON, like in Europe. Otherwise, there is no visible difference between OFF and STAND-BY.
- In SEMI-STAND-BY coming from STAND-BY, the blue LED is "on",
- In SEMI-STAND-BY coming from ON, the red LED is "on".

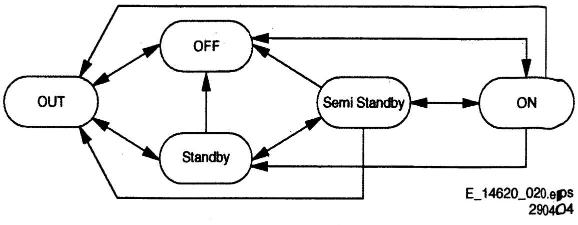


Figure 9-5 Power state diagram

- **OUT:** The set is OUT when the mains cord is disconnected. When the mains cord is connected, the set goes to OFF or to STAND-BY state, depending on the last status in the NVM. From all states, the set can be set to the OUT state by disconnecting the mains cord or by a mains interruption.
- **OFF:** In the OFF state, the OTC is powered but is in low power STAND-BY state. No LEDs are "on", RC6 is ignored, no EPG or P50 is possible, Proximity is set to "off", time extraction is not started (if it was done before this state, the clock stays running). This state can only be changed by the tact switch; the set goes via SEMI-STAND-BY to ON. From all states, we can go to the OFF state by the tact switch.
- **STAND-BY:** The set is in STAND-BY if the STAND-BY bit is set. This state can change with the RC6 "on" command, for EPG loading, P50 recording, for time extraction, or for ambient light. The next state is SEMI-STAND-BY and to ON if the STAND-BY bit is not set.
- **SEMI-STAND-BY:** State between STAND-BY or OFF and ON state. All supply voltages are present, but the screen is blanked.
- **ON:** set is ON.

9.2.5 POR detection

Situation in 2003:
By starting up or switching "off" the set by the ON/OFF switch or with (dis)connecting the mains cord, the power supply generates a POR. In case of mains spikes within the limits, there should be no POR. The POR line is "high" by starting up and shutting down and is "low" when the set is "on". This line mutes the audio amplifier and the audio outputs. The POR is also inverted and sent to the OTC (POR_FLASH). After a POR, the software starts the set, and there is a delay of 1 s after switching "off" for the backlights.

Changes in 2004:
Since the ON/OFF switch is always closed (not present anymore), there is no POR by starting up. The POR line is connected to +5V2 and is always "high". Only when the mains cord is reconnected, the Stand-by supply starts up, and the POR line follows the start up of the 5V2.

9.3 Video

For a detailed description of the Feature Box (PICNIC, Columbus, FEM, and Eagle 1C), see the EM5.3 Service Manual.

9.4 Synchronisation

See the FTL13 manual for a (more) detailed description.

9.5 Audio

See the FTL13 manual for a (more) detailed description.

9.6 Control

See the FTL13 manual for a (more) detailed description.

9.7 Proximity Sensor (if present)

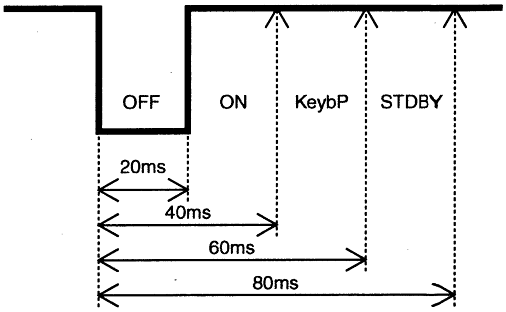
9.7.1 Introduction

The function of Proximity Sensor is to detect a motion when the customer is approaching the set. It will then light up the LEDs on the set for 6 s (detection area is 1.5 - 2 m). Its functionality is based upon IR emission, IR detection, and LED lighting processes. These three different phases are defined as follows:

1. First, it emits a signal through an IR transmitter.
2. Then it detects a reflection of this signal caused by a person approaching the set.
3. Finally, it lights up the different LEDs.

There are two IR transmitters used to cover the complete front, and detection is done with the existing IR receiver. It detects the reflected signal coming from the customer when he/she is approaching the set. If the customer presses a button on the keyboard of the Top Control, the lighting phase is also activated (or re-triggering).
The output of the module will control the lighting of the LED with a fade in/out effect.
The function can be switched "off/on" in the set-up menu.
The module is powered by the 5V_STAND-BY and works in "Stand-by" and in "On" state.

The control of the proximity sensor is done by a separate microprocessor. The communication between this processor and the OTC is done by the RC5 line. The following info is sent via this line:



E_14620_019.eps
290404

Figure 9-6 Pulses proximity microprocessor.

- Proximity OFF: negative pulse of 20 ms. The feature is switched "off" -> no detection.
- Proximity ON: negative pulse of 40 ms. The feature is turned "on" -> detection possible.
- Keyboard pressed: negative pulse of 60 ms. This gives a command to the proximity uP to turn "on" the LEDs.
- OTC goes to STAND-BY: negative pulse of 80 ms. This gives an indication that the set is in "Stand-by" mode.

9.7.2 Block Diagram

The function diagram is shown in the next figure.

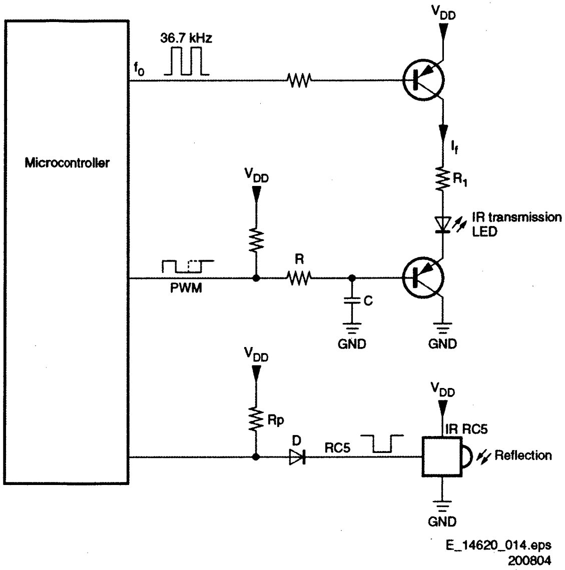


Figure 9-7 Emitting and detecting diagram

Emitting phase

IR Transmission (fo)
The IR transmission is realised with diode D6080 (TSAL5300). This IR emitting diode is modulated with a 36.7 kHz signal. This frequency (fo) is the same as the carrier frequency of the remote control system (RC5/6). The microcontroller IC7075 (87LPC760) generates a specific pattern: during one second 10 times 100 periods (T0= 1/f0) of the modulation signal is sent with a duty cycle of 50%. A timer port of the microcontroller is used to generate the 36.7 kHz

AGC of the transmission (PWM)
The Automatic Gain Control (AGC) allows managing the power of the IR emitting diode according to the detected reflection signal. The microcontroller generates a Pulse Width Modulation (PWM) signal that will change as soon as there is a reflection signal received by the RC5/6 system. If there is no reflection signal detected, the power will increase (average PWM signal tends to "0"). If a detection signal appears and remains, the power of the IR diode will decrease (average PWM signal tend to "1"). The average PWM signal is realised with a RC filter.
The maximum power depends on the forward current (If) in the IR diode. This current can be adjusted with the resistance R3022: the higher this resistance, the lower the IR power. During the start up of the Proximity sensor feature, a calibration mode will adapt the power of the IR diode. It is clear that the distance of the detection will decrease while the PWM signal tends to "1".
If a fixed object is placed in front of the TV set, the power will be adjusted and the detection zone will be limited from the TV set until the object. A timer port of the microcontroller is used to generate the PWM signal.

Detecting phase

IR detection (Reflection)
The IR detection is done via the existing remote control system (RC5/6). This IR receiver system detects all signals that get a carrier frequency of 36.7 kHz (f0). When a signal is detected, the output of the RC5/6 system will go to "0".
For the proximity sensor, we use this detection process to activate the LED signal. The microcontroller receives the detection signal coming from the reflection. There is a reflection when the modulated pattern (sent through the IR transmitting diode) hits an object or a person in the detection zone. The IR receiver demodulates the pattern signal that is directly decoded by the microcontroller. It is clear that the reflection will depend on the colour and texture of the customers clothing, or the object (table, chair...).
The figure shows the connection between the microcontroller and the RC5/6 system. The input port (an interruption pin) of the microcontroller is used for this.

Detection zone
The detection zone is defined when the IR diode power is at its maximum (average PWM signal is "0").
The Proximity sensor is more sensitive with bright and reflective clothes or surfaces. The detection zone is quite directive and is limited to one side of the set. Therefore, a divergence lens should be placed in front of the IR emitting diode to increase the detection zone and /or the IR diode orientation has to change on the main switch board.

Lighting phase

Fade in/out effect and current driver:
When the microcontroller detects a reflection signal, it will switch on the blue LEDs located on the Top Control. The light of the LED will increase gradually to full intensity (fade in effect). This effect will take 1 s. The light will remain "on" during 6 s, then it will switch "off" gradually within 3 s (fade out effect).
The light can re-trigger if the microcontroller receives the keyboard press information (as described in the "keyboard press detection" paragraph).
The fade in/out effect is realised with a simple electronic circuit (see following figure). The timing can be adjusted by changing the value of the resistors R3031 and R3032.

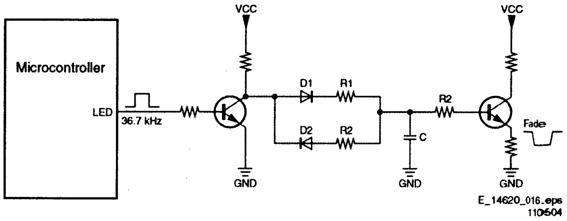


Figure 9-8 Fade in/out circuitry

A current driver circuit is used to power at least ten blue LEDs (see next figure). This current driver can supply around 120 mA thanks to the transistor TS7031.

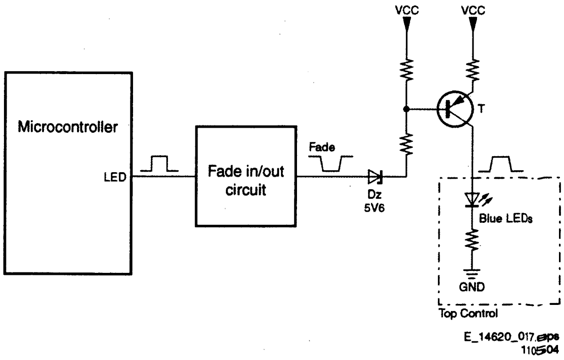


Figure 9-9 LED driver circuitry

Keyboard press detection
If the user manages to approach the set without activating the sensor but presses any button on the Top Control, the blue light will switch "on". If the user activates any button within the lighting phase, the light stays on for another 6 s.

The keyboard press detection is done by communication via the RC5/6 line. Because the OTC already receives the information KEYBOARD_PRESS, we can use the communication protocol between the OTC and the microcontroller via the RC5/6 line to switch "on" the blue LEDs.

9.8 Ambient Light (if present)

9.8.1 Introduction

At the rear left and right side of the TV-set, three gas discharging lamps are mounted. With the red, green, and blue lamps, each colour can be made.

- Ambient light is adjustable with three variables: Hue, Saturation, and Brightness.
- Hue and saturation are controlled via menu control or via smart settings.
- The brightness is controlled via menu or via a cycle generator.
- The light sensor influences the brightness.
- Switching "on" or "off" goes via a ramp up or down.
- The ambient light may be active or passive.

In the user set up menu the following items are added:

- Ambient Light.
- Lights "On/Off".
- Ambient Light: "Personal/Normal/Warm/Cool".

Two extra keys are added on the Remote Control:

- ON/OFF: A (normal) press on this key switches the Ambient Light "On/Off".
- MODE: In case the set is "On", to toggle the smart modes.

Specifications:

- Lamp current frequency= 43 kHz.
- Lamp dimming frequency= 85 Hz.
- PWM duty cycle range= 30 %
- Each lamp is only driven one third of the period to avoid crosstalk (drive lamps at 33.3 % to have no losses in output).

9.8.2 Block diagram

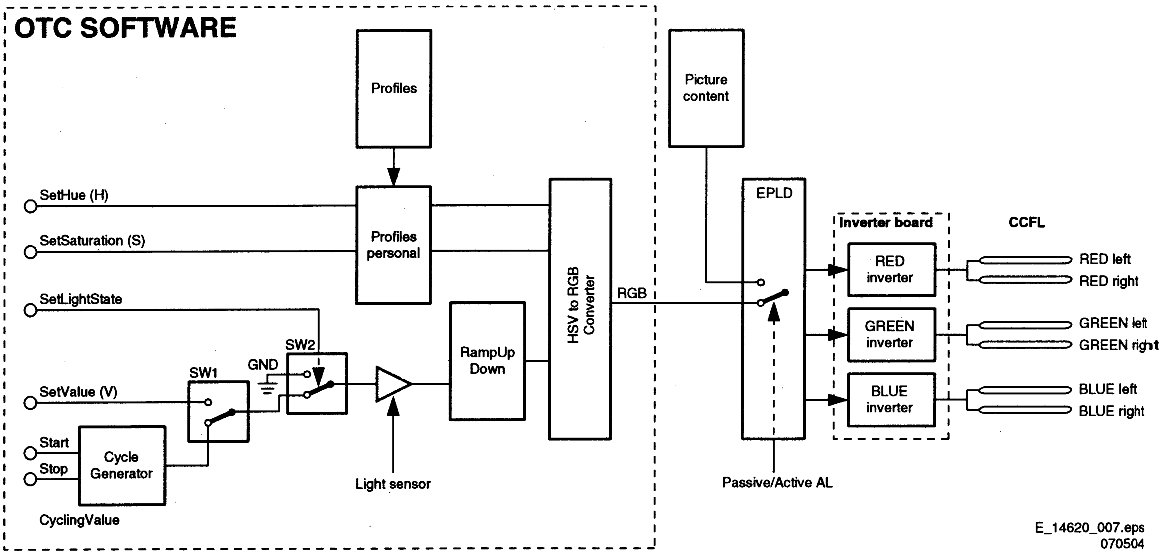

OTC SOFTWARE
Profiles
Picture content
SetHue (H)
SetSaturation (S)
Profiles personal
SetLightState
HSV to RGB Converter
RGB
EPLD
Inverter board
CCFL
RED inverter
RED left
RED right
GREEN inverter
GREEN left
GREEN right
BLUE inverter
BLUE left
BLUE right
SW2
GND
SW1
RampUp Down
SetValue (V)
Start
Stop
Cycle Generator
Light sensor
Passive/Active AL
CyclingValue
E_14620_007.eps
070504

Figure 9-10 Ambient light block diagram

All mentioned blocks (from "Cycle Generator" to "HSV-to-RGB Converter" are implemented in the main software. Via I^{2}C, the RGB values are sent to the EPLD (where a selection is made between "active" and "passive" mode) and again via I^{2}C the Inverter board is addressed.
In "passive" mode, the RGB values from the "HSV-to-RGB Converter" are used, while in "active" mode the picture content is used to steer the ambient lights.

Cycle Generator
The Cycle Generator (for fade in/out) starts with a long press on the "On/Off" button on the RC. It stops when the button is released.

Light sensor
The light sensor influences the Brightness: when the room is darker, the ambient light is reduced. The amount of dimming is set according to an algorithm in the Auto TV software. In "active" Ambient Light mode, the light sensor does not influence the Brightness.

Ramp Up/down
The Brightness is changing with a speed from min. to max. in 2 s.

HSV to RGB converter.
The HSV (Hue, Saturation, Value) values are converted to RGB values.

Outputs
The outputs are RGB values and can individually be decreased.

The EPLD
In "passive" mode, the EPLD sends the info from the OTC directly to the inverter board. In "active" mode, the EPLD calculates the RGB values. Hue and Saturation are not adjustable, Brightness is adjustable.

9.8.3 Inverter Board

This board is for Service a "Black Box". This means that it is not repairable on component level, but if it is defect, the board must be swapped. See the Spare Parts List for the order code.

Some specifications:

- There are three inverters to drive the lamps, each inverter drives the Left and Right lamp for one colour.
- DC-to-AC converter: 2.3 kV.

- Able to drive Cold Cathode Fluorescent Lamps (CCFL). There are two lamp units, three lamps (RGB) per unit= six lamps.
- The lamps are driven with Pulse Width Modulation (PWM).
- The inverters and lamps are supplied with 12V from main supply.

9.9 Software Upgrading

In this chassis, you can **upgrade** the Main software via ComPair. This offers the possibility, to replace the entire SW image without having to remove the flash-memory from its socket. You can find more information on how this procedure works in the ComPair file. It is possible that not all sets are equipped with the hardware, needed to make software upgrading possible.
To speed up the programming process, the firmware of the ComPair interface can be upgraded. See Chapter "Service Modes ..."; paragraph "ComPair" - "How To Order" for the order number.

See the FTL13 manual for a (more) detailed description.

9.10 Abbreviation list

1080i	1080 visible lines, interlaced
1080p	1080 visible lines, progressive scan
2DNR	Spatial (2D) Noise Reduction
3DNR	Temporal (3D) Noise Reduction
AARA	Automatic Aspect Ratio Adaptation: algorithm that adapts aspect ratio to remove horizontal black bars; keeping up the original aspect ratio
ACI	Automatic Channel Installation: algorithm that installs TV sets directly from cable network by means of a predefined TXT page
ADC	Analogue to Digital Converter
AFC	Automatic Frequency Control: control signal used to tune to the correct frequency
AGC	Automatic Gain Control: algorithm that controls the video input of the feature-box
AM	Amplitude Modulation
ANR	Automatic Noise Reduction: one of the algorithms of Auto TV
AR	Aspect Ratio: 4 by 3 or 16 by 9
Artistic	See OTC 2.5: main processor
ASF	Auto Screen Fit: algorithm that adapts aspect ratio to remove horizontal black bars but without throwing away video information
ATV	See Auto TV
AUDIO_C	Audio Centre
AUDIO_L	Audio Left
AUDIO_R	Audio Right
AUDIO_SL	Audio Surround Left
AUDIO-SR	Audio surround right
AUDIO_SW	Audio Sub woofer
Auto TV	A hardware and software control system that measures picture content, and adapts image parameters in a dynamic way
B/G	Monochrome TV system. Sound carrier distance is 5.5 MHz. B= VHF-band, G= UHF-band
B-SC1-IN	Blue SCART1 in
B-SC2-IN	Blue SCART2 in
B-TXT	Blue teletext
CL	Constant Level: audio output to connect with an external amplifier
ComPair	Computer aided rePair
CRT	Cathode Ray Tube or picture tube
CSM	Customer Service Mode
CTI	Colour Transient Improvement: manipulates steepness of chroma transients
CVBS	Composite Video Blanking and Synchronisation
CVBS-TER	CVBS terrestrial
COLUMBUS	COLour LUMinance Baseband Universal Subsystem. IC performing noise reduction and 2D/3D comb filtering
DAC	Digital to Analogue Converter
DBE	Dynamic Bass Enhancement: extra low frequency amplification
DDC	Display Data Channel; is a part of the "Plug and Play" feature
DFU	Direction For Use: description for the end user
D/K	Monochrome TV system. Sound carrier distance is 6.5 MHz. D= VHF-band, K= UHF-band
DNR	Digital Noise Reduction: noise reduction feature of the box

DPL	Dolby ProLogic
DSP	Digital Signal Processing
DST	Dealer Service Tool: special remote control designed for dealers to enter e.g. service mode
DVD	Digital Versatile Disc
DVI(-d)(-i)	Digital Visual Interface (d= digital only) (i= integrated); a digital video interface to a display, designed to replace the analogue YPbPr or RGB interface
Eagle	Feature box IC performing peaking, zooming and sub pixel LTI in both horizontal and vertical direction, CTI and other colour features
EDID	Extended Display Identification Data (VESA standard)
EEPROM	Electrically Erasable and Programmable Read Only Memory
EHT	Extra High Tension
EPG	Electronic Program Guide: system used by broadcasters to transmit TV guide information (= NexTView)
EPLD	Erasable Programmable Logic Device
EU	EUrope
EXT	External (source), entering the set via SCART or via cinches
FALCONIC	SAA4992H, Feature Box IC performing Digital Natural Motion, 3DNR, and vertical zoom and vertical peaking
FBL	Fast Blanking: DC signal accompanying RGB signals
FBL-PIP	The fast blanking signal for PIP
FBL-TXT	The fast blanking signal for TXT. It has a higher priority than FBL-PIP
FBX	Feature Box: part of small signal / separate module which contains 100 Hz processing, extra featuring and AutoTV algorithms (FBX6= based on PICNIC, FBX7= based on PICNIC and Eagle)
FDS	Full Dual Screen
FEM	Falconic Embedded Memory; IC (SAA4998H) that is the successor of the SAA4993H with jagged line removal and embedded memory
FHP	Fujitsu Hitachi Plasma display Ltd.
FLOF	Full Level One Features, TXT standard
FLASH	Flash memory
FM	Field Memory or Frequency Modulation
G-TXT	Green teletext
GND-DRIVE	A separate ground for the line drive towards the line driver
HA	Horizontal Acquisition: horizontal sync pulse coming out of the HIP
HD at HOME	A signal from the OTC, to switch the HOP to the Pixel Plus standard (75 Hz frame)
HIP	High-end video Input Processor (TDA9320): video and chroma decoder of EM5E
HOP	High-end video Output Processor (TDA9330): video, sync, and geometry controller of EM5E
HP	Head phone
I	Monochrome TV system. Sound carrier distance is 6.0 MHz. VHF- and UHF-band
Interlaced	Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in 'pairs', causing line flicker

I/O	Input/Output
I^2C	Inter IC bus (also called IIC)
IF	Intermediate Frequency
Interlaced	Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker
Last Status	The settings last chosen by the customer, read, and stored in RAM or in the NVM. They are called at start-up of the set to configure it according the customers wishes
LCD	Liquid Crystal Display
LPL	LG-Philips LCD
LED	Light Emitting Diode
L/L'	Monochrome TV system. Sound carrier distance is 6.5 MHz. L' is Band I, L is all bands except for Band I
LNA	Low Noise Adapter
LORE	LOcal REgression based noise reduction
LSP	Large signal panel
LVDS	Low Voltage Differential Signalling; Data transmission system for high speed and low EMI communication
M/N	Monochrome TV system. Sound carrier distance is 4.5 MHz. M= 525 lines @ 60 Hz, N= 625 lines @ 50 Hz
MSP	Multi-standard Sound Processor: ITT sound decoder of EM5E
MUTE	Mute-Line
NC	Not Connected
NICAM	Near Instantaneously Companded Audio Multiplexing; This is a digital sound system, mainly used in Europe
NTSC	National Television Standard Committee; Colour system mainly used in North America and Japan. Colour carrier NTSC M/N= 3.579545 MHz, NTSC 4.43= 4.433619 MHz (this is a VCR norm, it is not transmitted off-air)
NVM	Non Volatile Memory: IC containing TV related data e.g. alignments
O/C	Open Circuit
ON/OFF LED	On/Off control signal for the LED
OSD	On Screen Display
OTC	On screen display Teletext and Control; also named Artistic (SAA5800)
P50	Project 50 communication: protocol between TV and peripherals
PAL	Phase Alternating Line; Colour system mainly used in West Europe (colour carrier= 4.433619 MHz) and South America (colour carrier PAL M= 3.575612 MHz and PAL N= 3.582056 MHz)
PCB	Printed Circuit Board
PDP	Plasma Display Panel
PFC	Power Factor Corrector (or Pre-conditioner)
PICNIC	Peripheral Integrated Combined Network IC (SAA4978): main IC for 100 Hz featuring and feature processing
PIP	Picture In Picture
PLL	Phase Locked Loop; used for e.g. FST tuning systems. The customer can directly provide the desired frequency
POR	Power On Reset; Signal to reset the µP

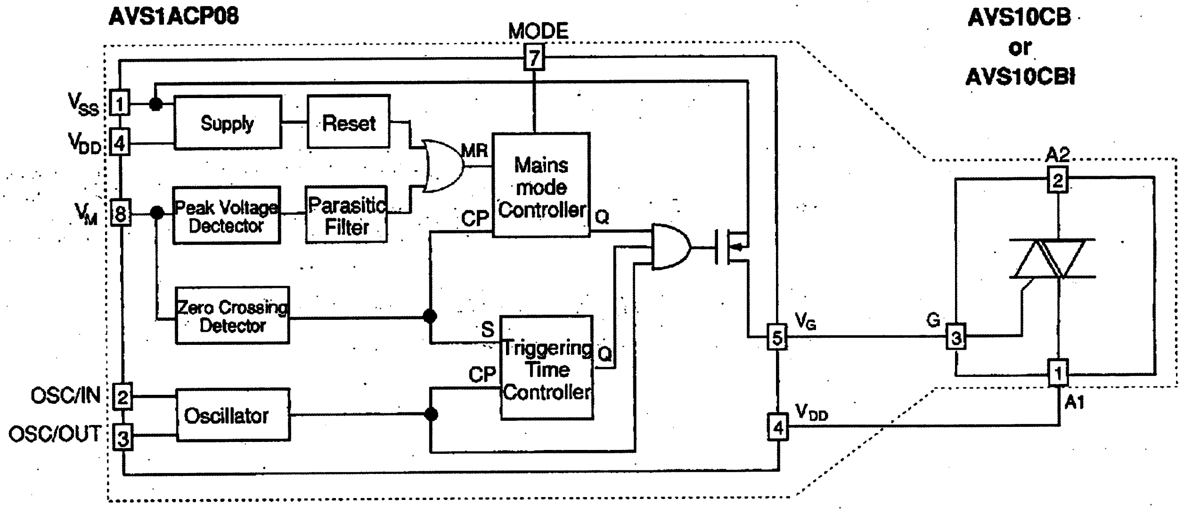
Progressive Scan	Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution.
PSU	Power Supply Unit
PWB	Printed Wiring Board
RAM	Random Access Memory
R-TXT	Red teletext
RC	Remote Control
RC5 / RC6	Signal protocol from the remote control receiver
RESET	Reset signal
RGB	Red, Green, and Blue colour space; The primary colour signals for TV. By mixing levels of R, G, and B, all colours (Y/C) are reproduced
RGBHV	Red, Green, Blue, Horizontal sync, and Vertical sync
ROM	Read Only Memory
SAM	Service Alignment Mode
S/C	Short Circuit
SCL-F	Clock signal on fast I^2C bus
SD	Standard Definition
SDA-F	Data signal on fast I^2C bus
SDI	Samsung Display Industry
SECAM	SÉquence Couleur Avec Mémoire; Colour system mainly used in France and East Europe. The chroma is FM modulated and the R-Y and B-Y signals are transmitted line sequentially. Colour carriers= 4.406250 MHz and 4.250000 MHz
SIF	Sound Intermediate Frequency
SMD	Surface Mounted Device
SMPS	Switched Mode Power Supply
SNERT	Synchronous No parity Eight bit Reception and Transmit
SSB	Small Signal Board
STBY	Stand-by
SW	Sub woofer
SVGA	800x600 (4:3)
SVHS	Super Video Home System
TMDS	Transition Minimised Differential Signalling
TOP	Table Of Pages; TXT standard
TXT	Teletext
uP	Microprocessor
UV	Colour difference signals
UVSH	UHF, VHF, S-, and Hyper-band
VA	Vertical Acquisition
V-a	Addressing voltage for the plasma display
VDS	Virtual Dolby Surround
VESA	Video Electronics Standards Association
VFB	Vertical Flyback Pulse: vertical sync pulse coming from the Feature Box
VGA	Video Graphics Array; 640x480 (4:3)
VL	Variable Level out: processed audio output towards external amplifier
V-ra	Setting voltage for V_a
V-rs	Setting voltage for V_s
V-s	Sustain voltage for the plasma display
WSS	Wide Screen Signalling; used by broadcasters to transmit e.g. PALPLUS and 16:9 Aspect Ratio
WXGA	Wide eXtended Graphics Array; 1280x768 (15:9) or 1366x768 (16:9)
WYSIWYR	What You See Is What You Record: record selection that follows main picture and sound
XGA	Extended Graphics Array; 1024x768 (4:3)
XTAL	Quartz crystal
Y	Luminance signal
Y100	Y from Feature Box
YPbPr	This is a scaled version of the YUV colour space. Y= Luminance, Pb/Pr= Colour difference signals B-Y and R-Y, other amplitudes w.r.t. to YUV
Y-OUT	Luminance-signal to HOP IC
YUV	Colour space used by the NTSC and PAL video systems. Y is the luminance and U/V are the colour difference signals

9.11 IC Data Sheets

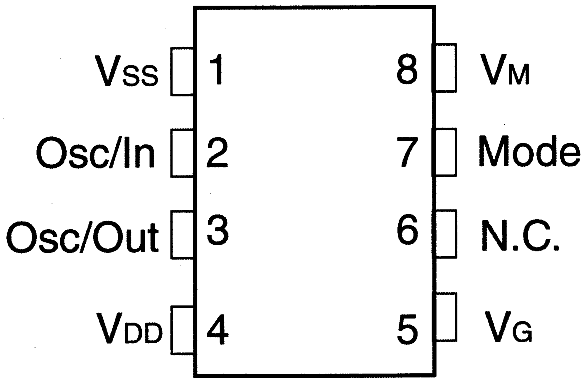
In this paragraph, the internal block diagrams and pinning are given of ICs that are drawn as a 'black box' in the electrical diagrams (with the exception of 'memory' and 'logic' ICs).

9.11.1 Diagram A1 and A3, AVS1ACP08 (IC7805 and IC7H05)

BLOCK DIAGRAM


AVS1ACP08
MODE
7
AVS10CB
or
AVS10CBI
V_{SS}
1
V_{DD}
4
Supply
Reset
MR
Mains mode Controller
A2
2
V_M
8
Peak Voltage Dectector
Parasitic Filter
CP
Q
Zero Crossing Detector
S
Triggering Time Controller
Q
CP
5
V_G
G
3
1
A1
OSC/IN
2
OSC/OUT
3
Oscillator
4
V_{DD}

PIN CONFIGURATION

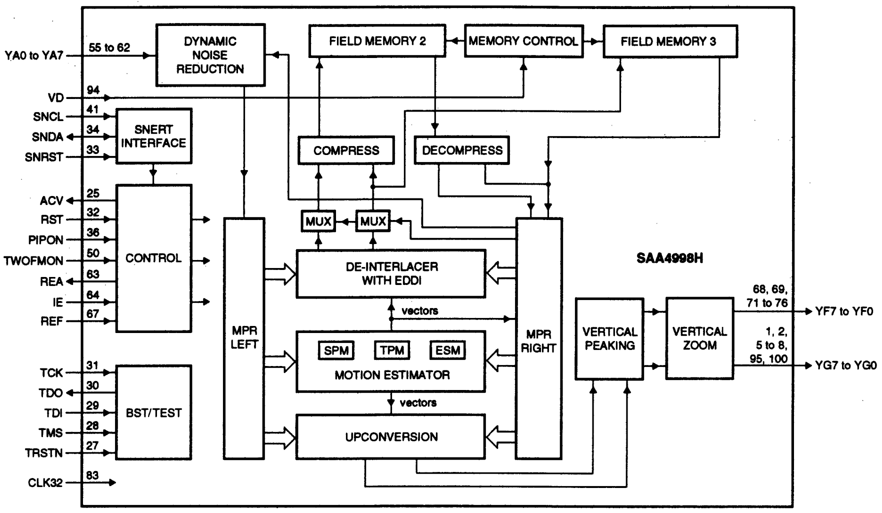

Vss 1
Osc/In 2
Osc/Out 3
VDD 4
8 VM
7 Mode
6 N.C.
5 VG

E_14620_145.eps
200804

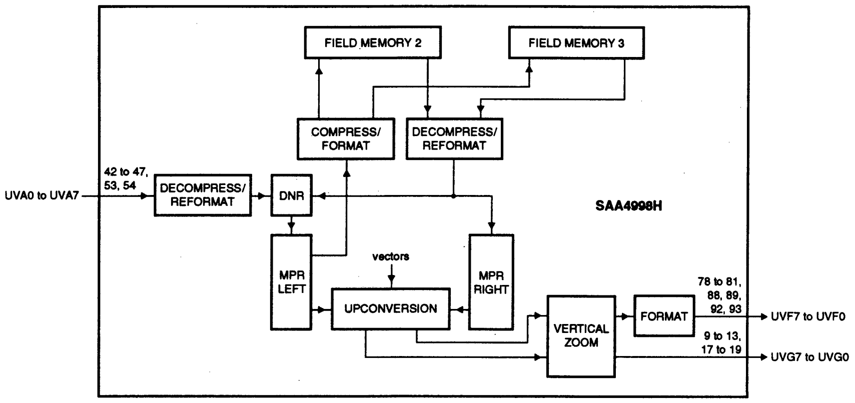
Figure 9-11 Internal block diagram and pin configuration

9.11.2 Diagram B3B, SAA4998 (IC7760)

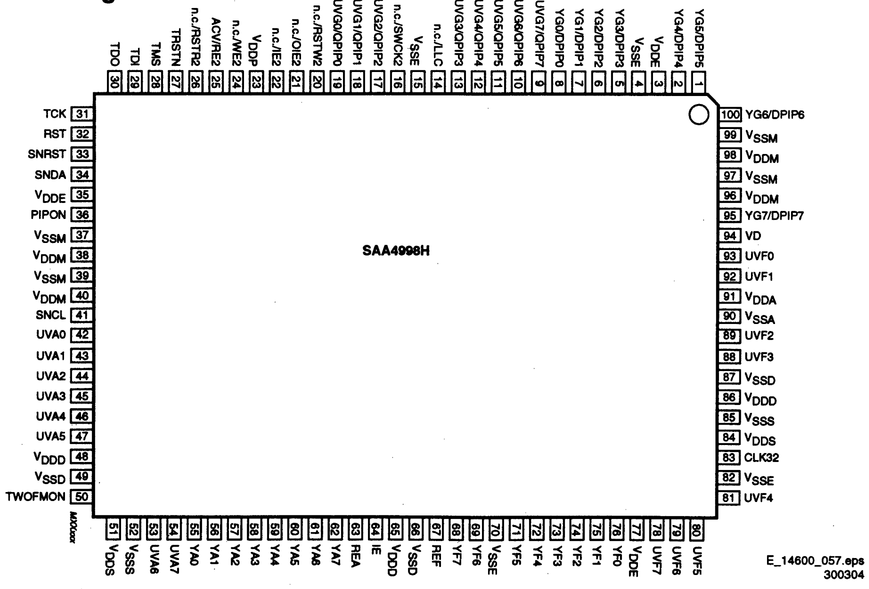
Block diagram of the luminance part in full FALCONIC mode.


YA0 to YA7
55 to 62
DYNAMIC NOISE REDUCTION
FIELD MEMORY 2
MEMORY CONTROL
FIELD MEMORY 3
VD
94
SNCL
41
SNDA
34
SNRST
33
SNERT INTERFACE
COMPRESS
DECOMPRESS
ACV
25
RST
32
PIPON
36
TWOFMON
50
REA
63
IE
64
REF
67
CONTROL
MUX
MUX
DE-INTERLACER WITH EDDI
SAA4998H
vectors
SPM
TPM
ESM
MOTION ESTIMATOR
MPR LEFT
MPR RIGHT
VERTICAL PEAKING
VERTICAL ZOOM
68, 69, 71 to 76
YF7 to YF0
1, 2, 5 to 8, 95, 100
YG7 to YG0
TCK
31
TDO
30
TDI
29
TMS
28
TRSTN
27
BST/TEST
vectors
UPCONVERSION
CLK32
83

Block diagram of the chrominance part in full FALCONIC mode.


FIELD MEMORY 2
FIELD MEMORY 3
COMPRESS/ FORMAT
DECOMPRESS/ REFORMAT
42 to 47, 53, 54
UVA0 to UVA7
DECOMPRESS/ REFORMAT
DNR
SAA4998H
vectors
MPR LEFT
MPR RIGHT
UPCONVERSION
VERTICAL ZOOM
FORMAT
78 to 81, 88, 89, 92, 93
UVF7 to UVF0
9 to 13, 17 to 19
UVG7 to UVG0

Pin configuration


1 YG5/DPIP5
2 YG4/DPIP4
3 V_{DDE}
4 V_{SSE}
5 YG3/DPIP3
6 YG2/DPIP2
7 YG1/DPIP1
8 YG0/DPIP0
9 UVG7/QPIP7
10 UVG6/QPIP6
11 UVG5/QPIP5
12 UVG4/QPIP4
13 UVG3/QPIP3
14 n.c./LLC
15 V_{SSE}
16 n.c./SWCK2
17 UVG2/QPIP2
18 UVG1/QPIP1
19 UVG0/QPIP0
20 n.c./RSTW2
21 n.c./OIE2
22 n.c./IE2
23 V_{DDP}
24 n.c./WE2
25 ACV/RE2
26 n.c./RSTR2
27 TRSTN
28 TMS
29 TDI
30 TDO
TCK 31
RST 32
SNRST 33
SNDA 34
V_{DDE} 35
PIPON 36
V_{SSM} 37
V_{DDM} 38
V_{SSM} 39
V_{DDM} 40
SNCL 41
UVA0 42
UVA1 43
UVA2 44
UVA3 45
UVA4 46
UVA5 47
V_{DDD} 48
V_{SSD} 49
TWOFMON 50
51 V_{DDS}
52 V_{SSS}
53 UVA6
54 UVA7
55 YA0
56 YA1
57 YA2
58 YA3
59 YA4
60 YA5
61 YA6
62 YA7
63 REA
64 IE
65 V_{DDD}
66 V_{SSD}
67 REF
68 YF7
69 YF6
70 V_{SSE}
71 YF5
72 YF4
73 YF3
74 YF2
75 YF1
76 YF0
77 V_{DDE}
78 UVF7
79 UVF6
80 UVF5
81 UVF4
82 V_{SSE}
83 CLK32
84 V_{DDS}
85 V_{SSS}
86 V_{DDD}
87 V_{SSD}
88 UVF3
89 UVF2
90 V_{SSA}
91 V_{DDA}
92 UVF1
93 UVF0
94 VD
95 YG7/DPIP7
96 V_{DDM}
97 V_{SSM}
98 V_{DDM}
99 V_{SSM}
100 YG6/DPIP6
SAA4998H

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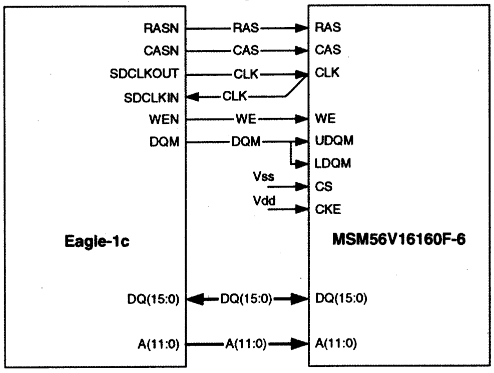
300304

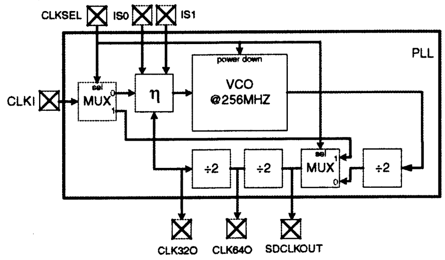
Figure 9-12 Internal block diagram and pin configuration

9.11.3 Diagram B3C, T6TX5EF (IC7720)

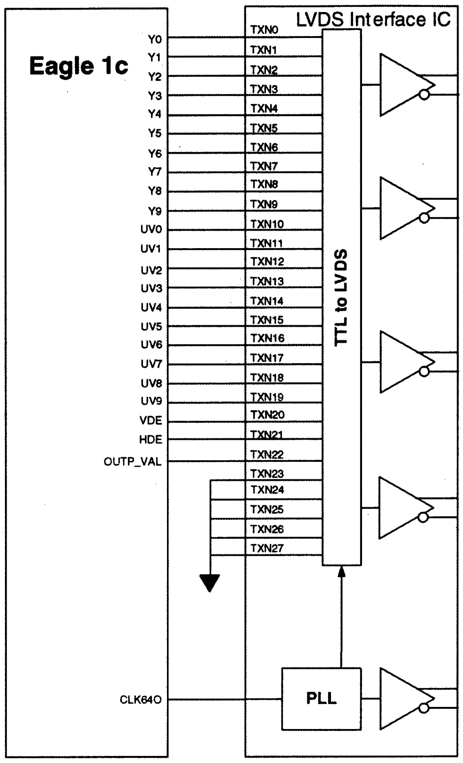
Interface between Eagle and External SDRAM

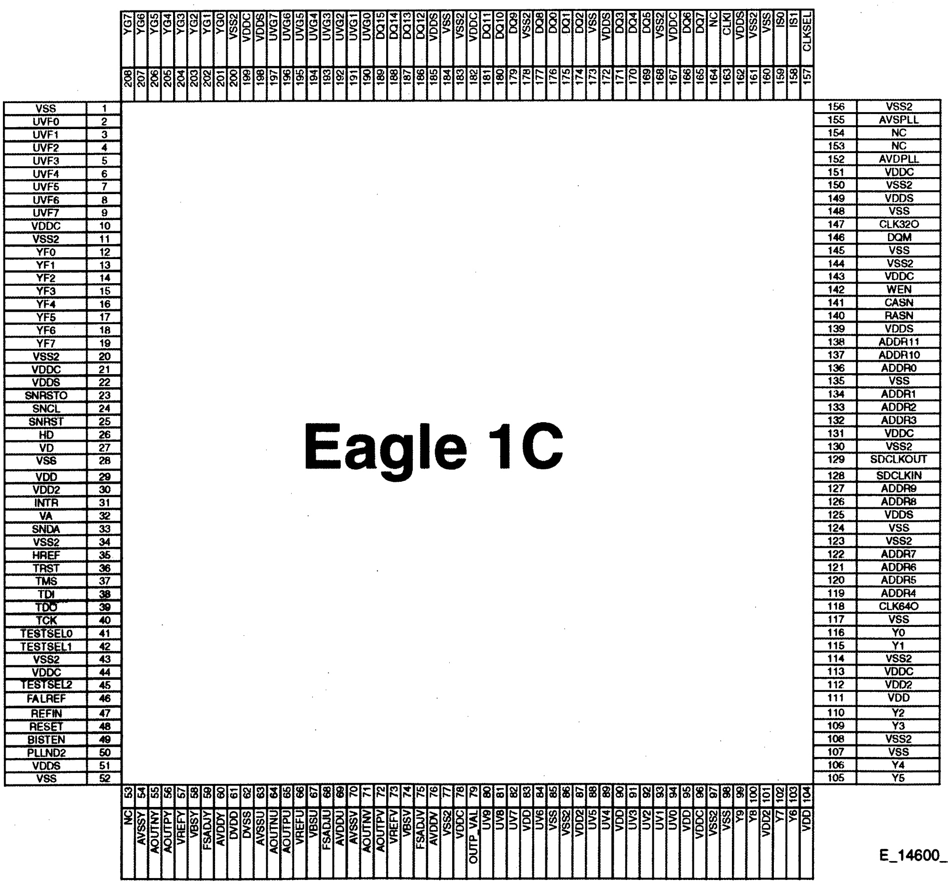

RASN
CASN
SDCLKOUT
SDCLKIN
WEN
DQM
RAS
CAS
CLK
CLK
WE
DQM
RAS
CAS
CLK
WE
UDQM
LDQM
Vss
Vdd
CS
CKE
Eagle-1c
MSM56V16160F-6
DQ(15:0)
DQ(15:0)
DQ(15:0)
A(11:0)
A(11:0)
A(11:0)

Internal Clock generation


CLKSEL
IS0
IS1
PLL
CLKI
sel
MUX
0
1
η
power down
VCO
@256MHZ
÷2
÷2
sel
MUX
1
0
÷2
CLK32O
CLK64O
SDCLKOUT

EAGLE IC digital output interface to LVDS device


Eagle 1c
Y0
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
Y9
UV0
UV1
UV2
UV3
UV4
UV5
UV6
UV7
UV8
UV9
VDE
HDE
OUTP_VAL
CLK64O
LVDS Interface IC
TXN0
TXN1
TXN2
TXN3
TXN4
TXN5
TXN6
TXN7
TXN8
TXN9
TXN10
TXN11
TXN12
TXN13
TXN14
TXN15
TXN16
TXN17
TXN18
TXN19
TXN20
TXN21
TXN22
TXN23
TXN24
TXN25
TXN26
TXN27
TTL to LVDS
PLL


Eagle 1C
YG7 208
YG6 207
YG5 206
YG4 205
YG3 204
YG2 203
YG1 202
YG0 201
VSS2 200
VDDC 199
VDDS 198
UVG7 197
UVG6 196
UVG5 195
UVG4 194
UVG3 193
UVG2 192
UVG1 191
UVG0 190
DQ15 189
DQ14 188
DQ13 187
DQ12 186
VDDS 185
VSS 184
VSS2 183
VDDC 182
DQ11 181
DQ10 180
DQ9 179
VSS2 178
DQ8 177
DQ0 176
DQ1 175
DQ2 174
VSS 173
VDDS 172
DQ3 171
DQ4 170
DQ5 169
VSS2 168
VDDC 167
DQ6 166
DQ7 165
NC 164
CLKI 163
VDDS 162
VSS2 161
VSS 160
IS0 159
IS1 158
CLKSEL 157
VSS 1
UVF0 2
UVF1 3
UVF2 4
UVF3 5
UVF4 6
UVF5 7
UVF6 8
UVF7 9
VDDC 10
VSS2 11
YF0 12
YF1 13
YF2 14
YF3 15
YF4 16
YF5 17
YF6 18
YF7 19
VSS2 20
VDDC 21
VDDS 22
SNRSTO 23
SNCL 24
SNRST 25
HD 26
VD 27
VSS 28
VDD 29
VDD2 30
INTR 31
VA 32
SNDA 33
VSS2 34
HREF 35
TRST 36
TMS 37
TDI 38
TDO 39
TCK 40
TESTSEL0 41
TESTSEL1 42
VSS2 43
VDDC 44
TESTSEL2 45
FALREF 46
REFIN 47
RESET 48
BISTEN 49
PLLND2 50
VDDS 51
VSS 52
156 VSS2
155 AVSPLL
154 NC
153 NC
152 AVDPLL
151 VDDC
150 VSS2
149 VDDS
148 VSS
147 CLK32O
146 DQM
145 VSS
144 VSS2
143 VDDC
142 WEN
141 CASN
140 RASN
139 VDDS
138 ADDR11
137 ADDR10
136 ADDR0
135 VSS
134 ADDR1
133 ADDR2
132 ADDR3
131 VDDC
130 VSS2
129 SDCLKOUT
128 SDCLKIN
127 ADDR9
126 ADDR8
125 VDDS
124 VSS
123 VSS2
122 ADDR7
121 ADDR6
120 ADDR5
119 ADDR4
118 CLK64O
117 VSS
116 Y0
115 Y1
114 VSS2
113 VDDC
112 VDD2
111 VDD
110 Y2
109 Y3
108 VSS2
107 VSS
106 Y4
105 Y5
53 NC
54 AVSSY
55 AOUTNY
56 AOUTPY
57 VREFY
58 VBSY
59 FSADJY
60 AVDDY
61 DVDD
62 DVSS
63 AVSSU
64 AOUTNU
65 AOUTPU
66 VREFU
67 VBSU
68 FSADJU
69 AVDDU
70 AVSSV
71 AOUTNV
72 AOUTPV
73 VREFV
74 VBSV
75 FSADJV
76 AVDDV
77 VSS2
78 VDDC
79 OUTP_VAL
80 UV9
81 UV8
82 UV7
83 VDD
84 UV6
85 VSS
86 VSS2
87 VDD2
88 UV5
89 UV4
90 VDD
91 UV3
92 UV2
93 UV1
94 UV0
95 VDD
96 VDDC
97 VSS2
98 VSS
99 Y9
100 Y8
101 VDD2
102 Y7
103 Y6
104 VDD

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131004

Figure 9-13 Internal block diagram and pin configuration

9.11.4 Diagram B3C, CY2305SC-1 (IC7721)

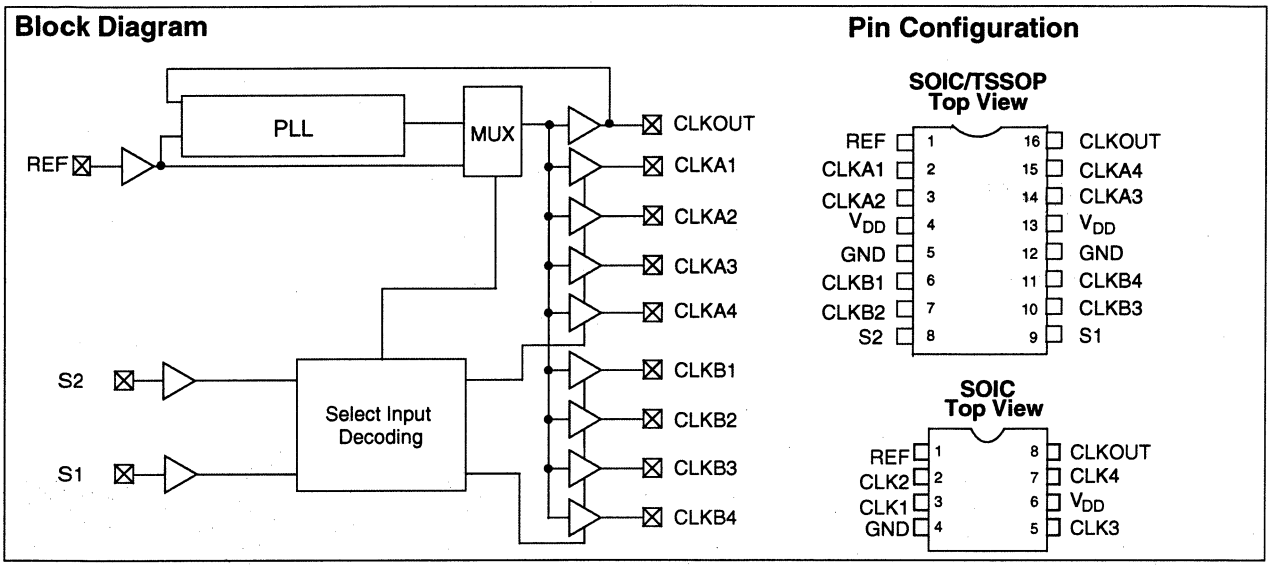
Block Diagram
PLL
MUX
REF
S2
S1
Select Input Decoding
CLKOUT
CLKA1
CLKA2
CLKA3
CLKA4
CLKB1
CLKB2
CLKB3
CLKB4
Pin Configuration
SOIC/TSSOP
Top View
REF 1
CLKA1 2
CLKA2 3
VDD 4
GND 5
CLKB1 6
CLKB2 7
S2 8
16 CLKOUT
15 CLKA4
14 CLKA3
13 VDD
12 GND
11 CLKB4
10 CLKB3
9 S1
SOIC
Top View
REF 1
CLK2 2
CLK1 3
GND 4
8 CLKOUT
7 CLK4
6 VDD
5 CLK3

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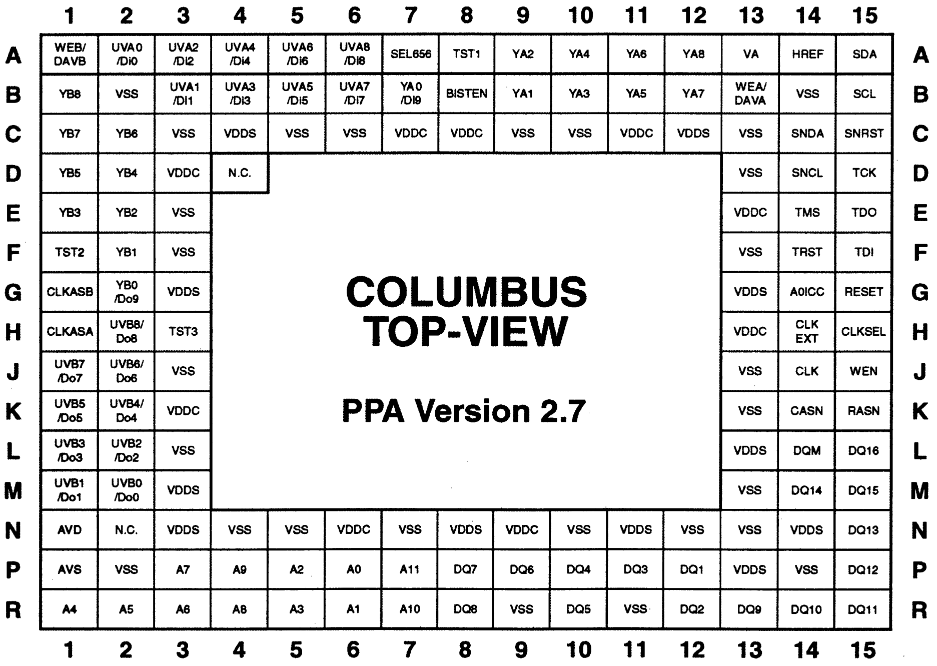
Figure 9-14 Internal block diagram and pin configuration.

9.11.5 Diagram B3D, T6TU5XB (IC7752)

Figure 1 Package outline (top view)

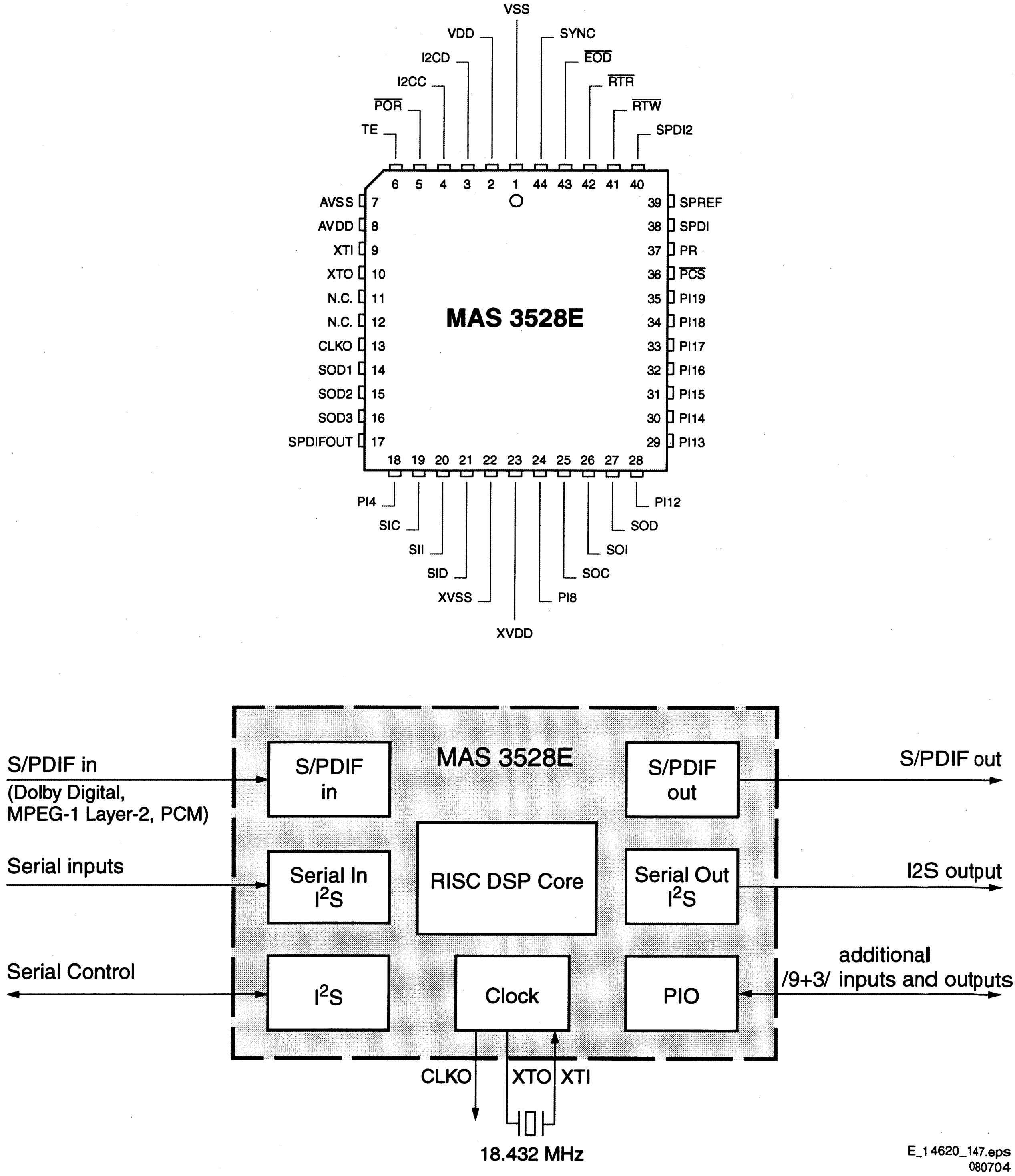

COLUMBUS
TOP-VIEW
PPA Version 2.7

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
A	WEB/ DAVB	UVA0 /Di0	UVA2 /Di2	UVA4 /Di4	UVA6 /Di6	UVA8 /Di8	SEL656	TST1	YA2	YA4	YA6	YA8	VA	HREF	SDA	A
B	YB8	VSS	UVA1 /Di1	UVA3 /Di3	UVA5 /Di5	UVA7 /Di7	YA0 /Di9	BISTEN	YA1	YA3	YA5	YA7	WEA/ DAVA	VSS	SCL	B
C	YB7	YB6	VSS	VDDS	VSS	VSS	VDDC	VDDC	VSS	VSS	VDDC	VDDS	VSS	SNDA	SNRST	C
D	YB5	YB4	VDDC	N.C.									VSS	SNCL	TCK	D
E	YB3	YB2	VSS										VDDC	TMS	TDO	E
F	TST2	YB1	VSS										VSS	TRST	TDI	F
G	CLKASB	YB0 /Do9	VDDS										VDDS	A0ICC	RESET	G
H	CLKASA	UVB8/ Do8	TST3										VDDC	CLK EXT	CLKSEL	H
J	UVB7 /Do7	UVB6/ Do6	VSS										VSS	CLK	WEN	J
K	UVB5 /Do5	UVB4/ Do4	VDDC										VSS	CASN	RASN	K
L	UVB3 /Do3	UVB2 /Do2	VSS										VDDS	DQM	DQ16	L
M	UVB1 /Do1	UVB0 /Do0	VDDS										VSS	DQ14	DQ15	M
N	AVD	N.C.	VDDS	VSS	VSS	VDDC	VSS	VDDS	VDDC	VSS	VDDS	VSS	VSS	VDDS	DQ13	N
P	AVS	VSS	A7	A9	A2	A0	A11	DQ7	DQ6	DQ4	DQ3	DQ1	VDDS	VSS	DQ12	P
R	A4	A5	A6	A8	A3	A1	A10	DQ8	VSS	DQ5	VSS	DQ2	DQ9	DQ10	DQ11	R
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

E_14600_059.eps
200804

Figure 9-15 Pin configuration

9.11.6 Diagram B6B, MAS3528E (IC7A30)


VSS
VDD
SYNC
I2CD
EOD
I2CC
RTR
POR
RTW
TE
SPDI2
6 5 4 3 2 1 44 43 42 41 40
AVSS 7
AVDD 8
XTI 9
XTO 10
N.C. 11
N.C. 12
CLKO 13
SOD1 14
SOD2 15
SOD3 16
SPDIFOUT 17
39 SPREF
38 SPDI
37 PR
36 PCS
35 PI19
34 PI18
33 PI17
32 PI16
31 PI15
30 PI14
29 PI13
MAS 3528E
18 19 20 21 22 23 24 25 26 27 28
PI4
PI12
SIC
SOD
SII
SOI
SID
SOC
XVSS
PI8
XVDD
S/PDIF in
(Dolby Digital,
MPEG-1 Layer-2, PCM)
Serial inputs
Serial Control
S/PDIF in
MAS 3528E
S/PDIF out
Serial In I²S
RISC DSP Core
Serial Out I²S
I²S
Clock
PIO
S/PDIF out
I2S output
additional
/9+3/ inputs and outputs
CLKO
XTO
XTI
18.432 MHz

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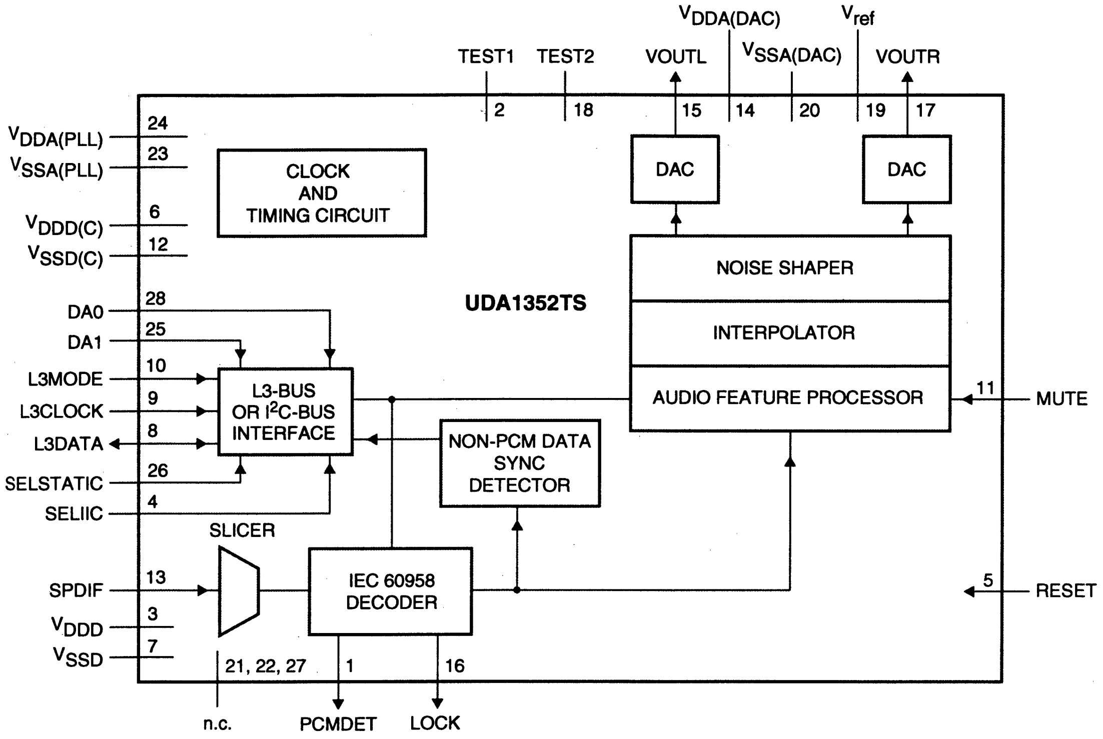
080704

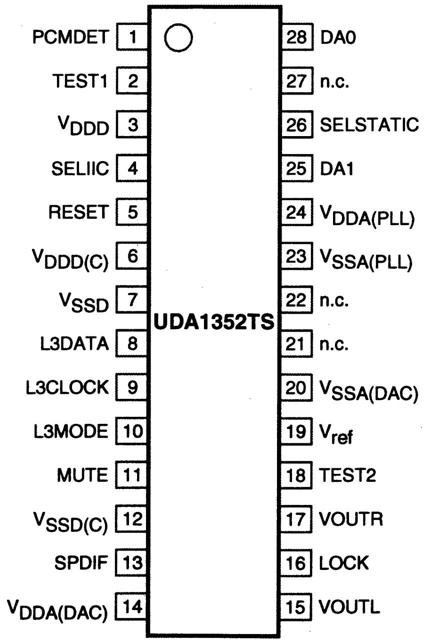
Figure 9-16 Internal block diagram and pin configuration

9.11.7 Diagram B14D, UDA1352TS (IC7I25)

BLOCK DIAGRAM


$V_{DDA(DAC)}$
V_{ref}
TEST1
TEST2
VOUTL
$V_{SSA(DAC)}$
VOUTR
2
18
15
14
20
19
17
$V_{DDA(PLL)}$ 24
$V_{SSA(PLL)}$ 23
$V_{DDD(C)}$ 6
$V_{SSD(C)}$ 12
CLOCK AND TIMING CIRCUIT
DAC
DAC
NOISE SHAPER
INTERPOLATOR
AUDIO FEATURE PROCESSOR
UDA1352TS
DA0 28
DA1 25
L3MODE 10
L3CLOCK 9
L3DATA 8
SELSTATIC 26
SELIIC 4
L3-BUS OR I²C-BUS INTERFACE
NON-PCM DATA SYNC DETECTOR
11 MUTE
SLICER
SPDIF 13
V_{DDD} 3
V_{SSD} 7
IEC 60958 DECODER
5 RESET
21, 22, 27
1
16
n.c.
PCMDET
LOCK

PIN CONFIGURATION


PCMDET 1
TEST1 2
V_{DDD} 3
SELIIC 4
RESET 5
$V_{DDD(C)}$ 6
V_{SSD} 7
L3DATA 8
L3CLOCK 9
L3MODE 10
MUTE 11
$V_{SSD(C)}$ 12
SPDIF 13
$V_{DDA(DAC)}$ 14
UDA1352TS
28 DA0
27 n.c.
26 SELSTATIC
25 DA1
24 $V_{DDA(PLL)}$
23 $V_{SSA(PLL)}$
22 n.c.
21 n.c.
20 $V_{SSA(DAC)}$
19 V_{ref}
18 TEST2
17 VOUTR
16 LOCK
15 VOUTL

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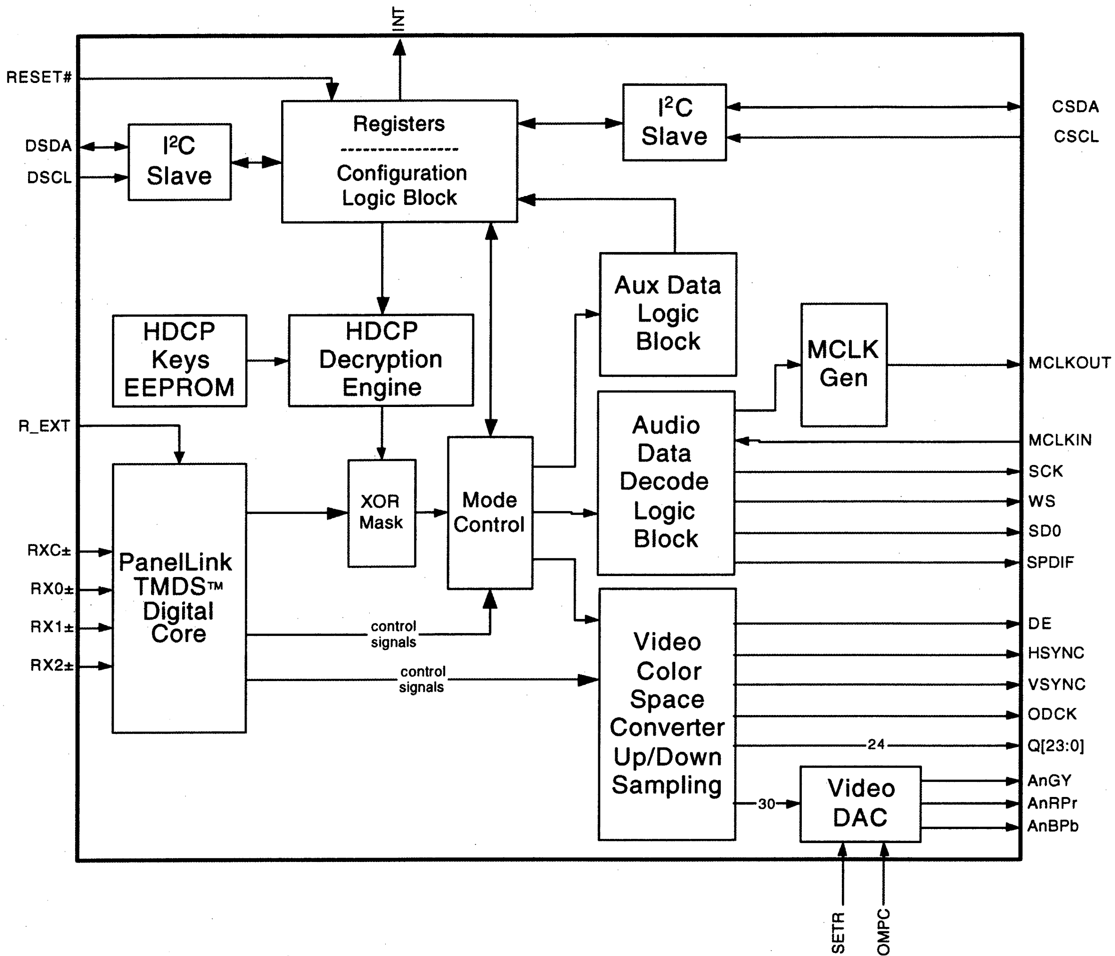
080704

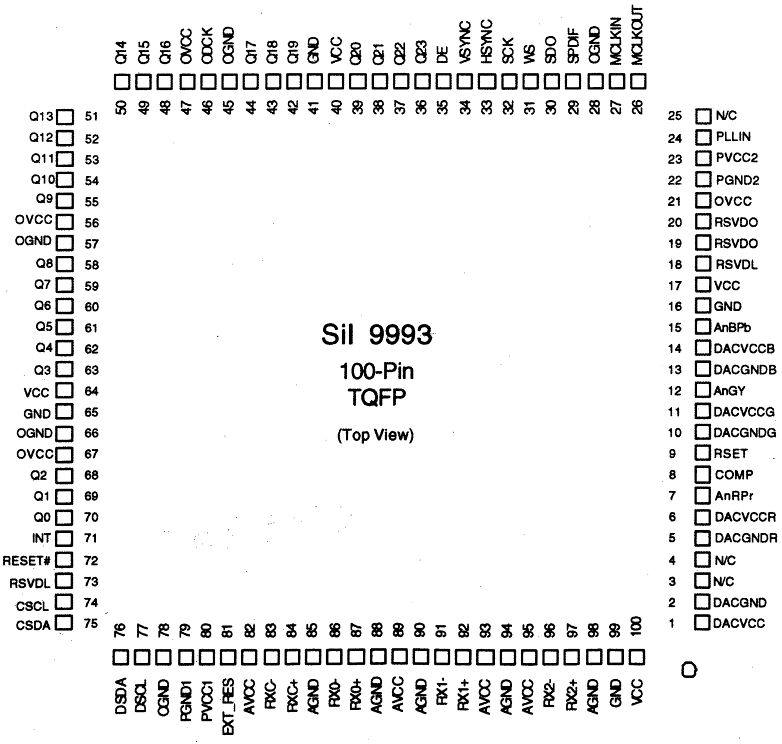
Figure 9-17 Internal block diagram and pin configuration

9.11.8 Diagram B14F, SiI9993CT100 (IC7I18)

Block Diagram


INT
RESET#
DSDA
DSCL
I²C Slave
Registers
Configuration Logic Block
I²C Slave
CSDA
CSCL
Aux Data Logic Block
MCLK Gen
MCLKOUT
HDCP Keys EEPROM
HDCP Decryption Engine
R_EXT
Audio Data Decode Logic Block
MCLKIN
SCK
WS
SD0
SPDIF
XOR Mask
Mode Control
RXC±
RX0±
RX1±
RX2±
PanelLink TMDS™ Digital Core
control signals
control signals
Video Color Space Converter Up/Down Sampling
DE
HSYNC
VSYNC
ODCK
24
Q[23:0]
30
Video DAC
AnGY
AnRPr
AnBPb
SETR
OMPC

Pin Configuration

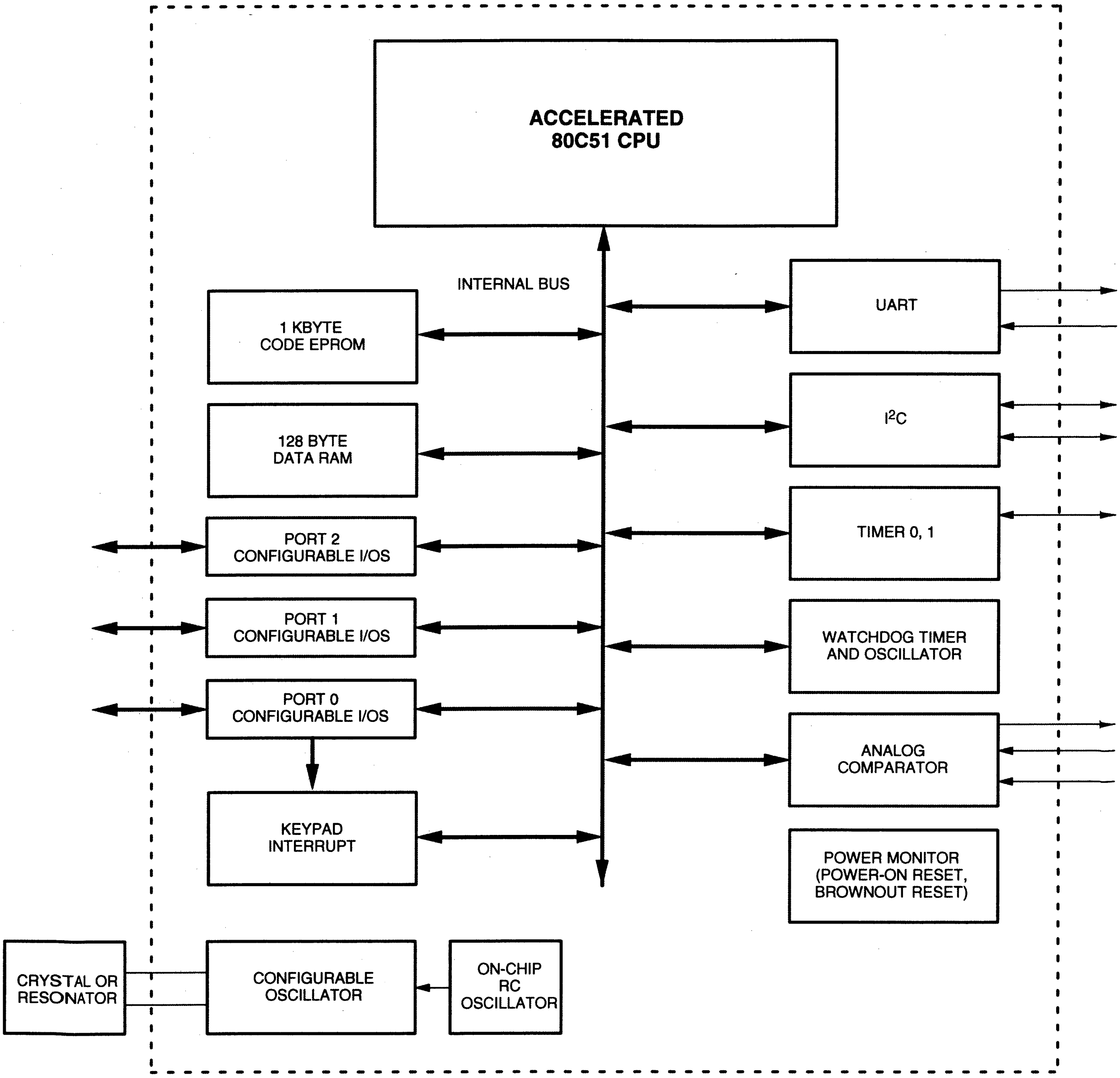

Q14 50
Q15 49
Q16 48
OVCC 47
ODCK 46
OGND 45
Q17 44
Q18 43
Q19 42
GND 41
VCC 40
Q20 39
Q21 38
Q22 37
Q23 36
DE 35
VSYNC 34
HSYNC 33
SCK 32
WS 31
SDO 30
SPDIF 29
OGND 28
MCLKIN 27
MCLKOUT 26
Q13 51
Q12 52
Q11 53
Q10 54
Q9 55
OVCC 56
OGND 57
Q8 58
Q7 59
Q6 60
Q5 61
Q4 62
Q3 63
VCC 64
GND 65
OGND 66
OVCC 67
Q2 68
Q1 69
Q0 70
INT 71
RESET# 72
RSVDL 73
CSCL 74
CSDA 75
25 N/C
24 PLLIN
23 PVCC2
22 PGND2
21 OVCC
20 RSVDO
19 RSVDO
18 RSVDL
17 VCC
16 GND
15 AnBPb
14 DACVCCB
13 DACGNDB
12 AnGY
11 DACVCCG
10 DACGNDG
9 RSET
8 COMP
7 AnRPr
6 DACVCCR
5 DACGNDR
4 N/C
3 N/C
2 DACGND
1 DACVCC
76 DSDA
77 DSCL
78 OGND
79 PGND1
80 PVCC1
81 EXT_RES
82 AVCC
83 RXC+
84 RXC-
85 AGND
86 RX0-
87 RX0+
88 AGND
89 AVCC
90 AGND
91 RX1-
92 RX1+
93 AVCC
94 AGND
95 AVCC
96 RX2-
97 RX2+
98 AGND
99 GND
100 VCC
SiI 9993
100-Pin TQFP
(Top View)

E_14620_149.eps
170305

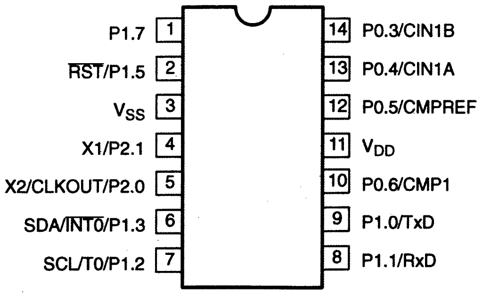
Figure 9-18 Internal block diagram and pin configuration

9.11.9 Diagram J, P87LPC760BDH (IC7075)

BLOCK DIAGRAM


ACCELERATED 80C51 CPU
INTERNAL BUS
1 KBYTE CODE EPROM
128 BYTE DATA RAM
PORT 2 CONFIGURABLE I/OS
PORT 1 CONFIGURABLE I/OS
PORT 0 CONFIGURABLE I/OS
KEYPAD INTERRUPT
UART
I²C
TIMER 0, 1
WATCHDOG TIMER AND OSCILLATOR
ANALOG COMPARATOR
POWER MONITOR (POWER-ON RESET, BROWNOUT RESET)
CRYSTAL OR RESONATOR
CONFIGURABLE OSCILLATOR
ON-CHIP RC OSCILLATOR

PIN CONFIGURATION


P1.7 1
$\overline{\text{RST}}$/P1.5 2
V_{SS} 3
X1/P2.1 4
X2/CLKOUT/P2.0 5
SDA/$\overline{\text{INT0}}$/P1.3 6
SCL/T0/P1.2 7
P1.1/RxD 8
P1.0/TxD 9
P0.6/CMP1 10
V_{DD} 11
P0.5/CMPREF 12
P0.4/CIN1A 13
P0.3/CIN1B 14

E_14620_150.eps
200804

Figure 9-19 Internal block diagram and pin configuration

10. Spare Parts List

Set Level (FTL2.1E Top)

Various

0175	3104 328 36681	Ambi Light assy 32/37" L
0175	3104 328 36701	Ambi Light assy 42" L
0176	3104 328 36691	Ambi Light assy 32/37" R
0176	3104 328 36711	Ambi Light assy 42" R
1004	9322 206 51682	LC420W02-A4 (LPL)
1004	9322 206 52682	LC370W01-A5 (LPL)
1004	9322 209 35682	LQ315T3LZ13 (Sharp)
1004	9322 211 11682	LC420W02-A4K3 (LPL)
8250	3104 311 08891	Cbl 31P/480/30P (42")
8250	3104 311 08901	Cbl 31P/230/30P (32/37")
8302	3104 311 04721	Cable 7P/680/7P
8302	3104 311 08931	Cable 7P/1000/7P
8303	3104 311 06921	Cable 4P/560/4P
8303	3104 311 08261	Cable 4P/820/4P
8304	3104 311 06921	Cable 4P/560/4P
8304	3104 311 08271	Cable 4P/340/4P
8304	3104 311 08291	Cable 4P/680/4P
8305	3104 311 01731	Cable 3P/400/3P
8305	3104 311 07581	Cable 3P/560P3P
8305	3104 311 08401	Cable 3P/280/3P
8305	3104 311 08411	Cable 3P/340/3P
8305	3104 311 08421	Cable 3P/400/3P
8306	3104 311 01431	Cable 2P3/340/2P3
8306	3104 311 08341	Cable 2P3/280/2P3
8306	3104 311 08351	Cable 2P3/340/2P3
8307	3104 311 04321	Cable 9P/450/9P
8307	3104 311 06921	Cable 4P/560/4P
8307	3104 311 08371	Cable 4P/340/4P
8309	3104 311 06921	Cable 4P/560/4P
8309	3104 311 08301	Cable 3P/340/3P
8309	3104 311 08321	Cable 3P/680/3P
8310	3104 311 07061	Cable 4P/280/4P
8310	3104 311 07371	Cable 4P/340/4P
8310	3104 311 08121	Cable 4P/340/4P
8310	3104 311 08131	Cable 4P/400/4P
8311	3104 311 09061	Cable 3P+3P11/460/3P
8311	3104 311 09081	Cable 3P+3P11/750/3P
8311	8204 000 77021	Cable 3P+3P11/1160/3P
8311	8204 000 77031	Cable 3P+3P11/1320/3P
8311	8204 000 77061	Cable 3P+3P11/970/3P
8313	3104 311 09061	Cable 3P+3P11/460/3P
8313	3104 311 09071	Cable 3P+3P11/250/3P
8313	3104 311 09081	Cable 3P+3P11/750/3P
8313	3104 311 09451	Cable 3P+3P11/600/3P
8313	8204 000 76981	Cable 3P+3P11/220/3P
8314	3104 311 07441	Cable 10P/680/10P
8315	3104 311 07441	Cable 10P/680/10P
8316	3104 311 07261	Cable 12P/120/12P
8316	3104 311 07981	Cable 12P/180/12P
8317	3104 311 07481	Cable 12P/820/12P
8317	3104 311 08191	Cable 12P/1K2/12P
8317	3104 311 08201	Cable 12P/1300/12P
8318	3104 311 07421	Cable 6P/680/6P
8320	3104 311 06921	Cable 4P/560/4P
8320	3104 311 08331	Cable 3P/820/3P
8350	3104 311 07601	Cable 5P/1K0/5P
8735	3104 311 06721	Cable 2P3/680/2P
8735	3104 311 07491	Cable 2P3/480/2P
8736	3104 311 06721	Cable 2P3/680/2P
8736	3104 311 07551	Cable 2P3/1600/2P

MF Supply [A] (FTL2.1E Top)

Various

1005▲	4822 071 55002	Fuse 5A 250V T
1006▲	4822 071 55002	Fuse 5A 250V T
1007▲	4822 071 55002	Fuse 5A 250V T
1303	2422 025 04475	Connector 4p m
1303	2422 025 10647	Connector 4p m
1304	2422 025 10647	Connector 4p m
1304	2422 025 10648	Connector 8p m
1305	4822 267 10735	Connector 3p
1306	2422 025 16374	Connector 2p m
1307	2422 025 10647	Connector 4p m
1308	4822 265 20723	Connector 2p
1309	2422 025 04475	Connector 4p m
1309	2422 025 11143	Connector 3p m
1320	2422 025 04475	Connector 4p m
1320	2422 025 11143	Connector 3p m
1400▲	4822 070 33152	Fuse 3.15A
1400▲	4822 253 50145	Fuse 3.15A T
1401▲	4822 252 11224	Fuse 1A T 250V
1402▲	4822 252 60151	Surge protect
1403	4822 265 11253	Fuse holder
1405	4822 265 11253	Fuse holder
1410	4822 265 11253	Fuse holder
1411	4822 265 11253	Fuse holder
1420	3104 311 08391	Cable 3p/140/3p Wh
1450▲	2422 132 07411	Relay 1p 5V 5A
1B06	4822 267 10735	Connector 3p
1C05	4822 267 10735	Connector 3p
1D00▲	4822 070 33152	Fuse 3.15A
1D02▲	4822 252 60151	Surge protect
1D10	4822 265 11253	Fuse holder
1D50▲	2422 132 07411	Relay 1p 5V 5A
1M02	2422 025 11244	Connector 7p m
1U07▲	4822 071 55002	Fuse T5A 250V

⊣⊢

2000▲	2020 554 90169	470pF 10% 250V
2000▲	2252 811 95022	1.5nF 20% 250V
2002	4822 124 11767	470µF 20% 25V
2003	4822 124 80061	1000µF 20% 25V
2007	2020 552 96684	470nF 10% 25V 0805
2007▲	4822 126 14583	470nF 10% 16V 0805
2008	4822 126 14583	470nF 10% 16V 0805
2009	2238 867 18101	100pF 1% 50V 0603
2010	4822 124 40207	100µF 20% 25V
2011	2022 333 00119	10nF 5% 1.6kV
2011	4822 121 70617	10nF 5% 1.6kV
2012	4822 126 13862	1.5nF 10% 2kV
2013	4822 126 13862	1.5nF 10% 2kV
2014	2252 811 95018	2.2nF 20% 250V
2014	4822 126 13451	2.2nF 10% 2kV
2015	5322 126 11583	10nF 10% 50V 0603
2016	2238 586 59812	100nF 20% 50V 0603
2017	2022 333 00119	10nF 5% 1.6kV
2017	4822 121 70617	10nF 5% 1.6kV
2019	5322 126 11583	10nF 10% 50V 0603
2020	2020 021 00012	2200µF 20% 16V
2020	4822 124 12417	2200µF 20% 25V
2021	2020 021 00012	2200µF 20% 16V
2021	2238 867 18101	100pF 1% 50V 0603
2021	4822 124 12417	2200µF 20% 25V
2022	2020 021 00012	2200µF 20% 16V
2022	4822 124 11583	2200µF 20% 35V
2022	4822 124 81168	2200 µF 20% 35V
2023	2020 552 96684	470nF 10% 25V 0805
2023	4822 126 14583	470nF 10% 16V 0805
2024	2020 552 96326	220nF 10% 16V
2025	2020 552 96683	220nF 10% 50V
2025	4822 121 51319	1µF 10% 63V
2026	4822 126 14238	2.2nF 50V 0603
2027	3198 017 31530	15nF 20% 50V 0603
2028	5322 126 11578	1nF 10% 50V 0603
2029	5322 126 11578	1nF 10% 50V 0603
2031	5322 126 11583	10nF 10% 50V 0603
2032	4822 126 13193	4.7nF 10% 63V
2033	2020 552 96683	220nF 10% 50V
2033	4822 121 51319	1µF 10% 63V
2034	2238 867 18101	100pF 1% 50V 0603
2035	2238 867 18101	100pF 1% 50V 0603
2035	5322 126 11578	1nF 10% 50V 0603
2036	4822 126 14583	470nF 10% 16V 0805
2037	4822 126 14583	470nF 10% 16V 0805
2038	2020 021 00012	2200µF 20% 16V
2038	4822 124 11583	2200µF 20% 35V
2038	4822 124 81168	2200 µF 20% 35V
2039	4822 126 14583	470nF 10% 16V 0805
2039	5322 126 11583	10nF 10% 50V 0603
2040	4822 126 14249	560pF 10% 50V 0603
2041	2020 552 96683	220nF 10% 50V
2042	2020 552 96683	220nF 10% 50V
2043	2020 552 96683	220nF 10% 50V
2044	5322 126 11578	1nF 10% 50V 0603
2045	5322 126 11578	1nF 10% 50V 0603
2046	3198 017 34730	47nF 16V 0603
2047	5322 126 11583	10nF 10% 50V 0603
2048	5322 126 11578	1nF 10% 50V 0603
2050	5322 126 11578	1nF 10% 50V 0603
2051	2020 552 96683	220nF 10% 50V
2052	2020 552 96683	220nF 10% 50V
2053	2020 552 96683	220nF 10% 50V
2060	4822 126 14238	2.2nF 50V 0603
2061	4822 126 14238	2.2nF 50V 0603
2062	4822 126 14238	2.2nF 50V 0603
2063	4822 126 13881	470pF 5% 50V
2064	4822 126 13881	470pF 5% 50V
2065	4822 126 14238	2.2nF 50V 0603
2071	5322 126 11578	1nF 10% 50V 0603
2072	5322 126 11578	1nF 10% 50V 0603
2077	4822 126 14238	2.2nF 50V 0603
2290	5322 126 11583	10nF 10% 50V 0603
2291	4822 126 13881	470pF 5% 50V
2292	2020 021 91354	1000µF 20% 50V
2292	4822 124 12417	2200µF 20% 25V
2293	4822 126 13881	470pF 5% 50V
2294	2020 021 91354	1000µF 20% 50V
2294	4822 124 12417	2200µF 20% 25V
2400▲	2222 338 22474	470nF 20% 275V
2401▲	2222 338 22474	470nF 20% 275V
2405▲	2020 554 90167	220pF 10% 250V
2407▲	2020 554 90167	220pF 10% 250V
2407▲	2252 811 95017	470pF 10% 250V
2407▲	2252 811 95065	220pF 10% 250V
2503	2020 024 90718	10µF 20% 450V
2803	2222 365 55563	56nF 10% 400V
2804	2222 365 55563	56nF 10% 400V
2816	2020 024 90749	330µF 20% 400V
2817	4822 121 70162	10nF 5% 400V
2B90	5322 126 11583	10nF 10% 50V 0603
2B91	4822 126 13881	470pF 5% 50V
2B92	2020 021 91354	1000µF 20% 50V
2B92	4822 124 12417	2200µF 20% 25V
2B93	4822 126 13881	470pF 5% 50V
2B94	2020 021 91354	1000µF 20% 50V
2B94	4822 124 12417	2200µF 20% 25V
2D00▲	2222 338 22474	470nF 20% 275V
2D01▲	2222 338 22474	470nF 20% 275V
2D05▲	2020 554 90167	220pF 10% 250V
2D07	2020 554 90167	220pF 10% 250V
2H03	2222 365 55563	56nF 10% 400V
2H04	2222 365 55563	56nF 10% 400V
2H16	2020 024 90749	330µF 20% 400V
2H17	4822 121 70162	10nF 5% 400V
2U00▲	2020 554 90169	470pF 10% 250V
2U02	4822 124 11767	470µF 20% 25V
2U03	4822 124 80061	1000µF 20% 25V
2U07	2020 552 96684	470nF 10% 25V 0805
2U08	4822 126 14583	470nF 10% 16V 0805
2U09	2238 867 18101	100pF 1% 50V 0603
2U10	4822 124 40207	100µF 20% 25V
2U11	4822 121 70617	10nF 5% 1.6kV
2U12	4822 126 13862	1.5nF 10% 2kV
2U13	4822 126 13862	1.5nF 10% 2kV
2U14	2252 811 95018	2.2nF 20% 250V
2U14	4822 126 13451	2.2nF 10% 2kV
2U15	5322 126 11583	10nF 10% 50V 0603
2U16	2238 586 59812	100nF 20% 50V 0603
2U17	4822 121 70617	10nF 5% 1.6kV
2U19	5322 126 11583	10nF 10% 50V 0603
2U21	2238 867 18101	100pF 1% 50V 0603
2U22	4822 124 11583	2200µF 20% 35V
2U22	4822 124 81168	2200 µF 20% 35V
2U23	2020 552 96684	470nF 10% 25V 0805
2U24	2020 552 96326	220nF 10% 16V
2U25	4822 121 51319	1µF 10% 63V
2U26	4822 126 14238	2.2nF 50V 0603
2U27	3198 017 31530	15nF 20% 50V 0603
2U29	5322 126 11578	1nF 10% 50V 0603
2U32	4822 126 13193	4.7nF 10% 63V
2U33	4822 121 51319	1µF 10% 63V
2U34	2238 867 18101	100pF 1% 50V 0603
2U38	4822 124 11583	2200µF 20% 35V
2U38	4822 124 81168	2200 µF 20% 35V
2U39	5322 126 11583	10nF 10% 50V 0603
2U40	4822 126 14249	560pF 10% 50V 0603
2U45	5322 126 11578	1nF 10% 50V 0603
2U46	3198 017 34730	47nF 16V 0603
2U47	5322 126 11583	10nF 10% 50V 0603
2U48	5322 126 11578	1nF 10% 50V 0603
2U50	5322 126 11578	1nF 10% 50V 0603
2U60	4822 126 14238	2.2nF 50V 0603
2U61	4822 126 14238	2.2nF 50V 0603
2U62	4822 126 14238	2.2nF 50V 0603
2U63	4822 126 13881	470pF 5% 50V
2U64	4822 126 13881	470pF 5% 50V
2U65	4822 126 14238	2.2nF 50V 0603
2U71	5322 126 11578	1nF 10% 50V 0603
2U72	5322 126 11578	1nF 10% 50V 0603
2U77	4822 126 14238	2.2nF 50V 0603

-ww-

3000▲	4822 052 10478	4.7Ω 5% 0.33W
3001	4822 051 30101	100Ω 5% 0.062W

3002	4822 051 30103	10kΩ 5% 0.062W
3002	4822 051 30393	39kΩ 5% 0.062W
3003	4822 117 13632	100kΩ 1% 0603 0.62W
3004	4822 051 30273	27kΩ 5% 0.062W
3005	4822 051 30333	33kΩ 5% 0.062W
3006	4822 051 30103	10kΩ 5% 0.062W
3007	4822 051 30103	10kΩ 5% 0.062W
3008	4822 051 30331	330Ω 5% 0.062W
3009	4822 051 30332	3.3Ω 5% 0.062W
3010	4822 051 30471	47Ω 5% 0.062W
3011	4822 051 30471	47Ω 5% 0.062W
3012	4822 051 30153	15kΩ 5% 0.062W
3013	4822 051 30103	10kΩ 5% 0.062W
3014▲	4822 052 10101	100Ω 5% 0.33W
3015▲	4822 052 10479	47Ω 5% 0.33W
3016	4822 051 30222	2.2kΩ 5% 0.062W
3016	4822 051 30332	3.3Ω 5% 0.062W
3017▲	4822 052 10101	100Ω 5% 0.33W
3018▲	4822 052 10479	47Ω 5% 0.33W
3019	4822 051 30222	2.2kΩ 5% 0.062W
3019	4822 051 30332	3.3Ω 5% 0.062W
3020	4822 051 30222	2.2kΩ 5% 0.062W
3020	4822 051 30332	3.3Ω 5% 0.062W
3021	4822 117 12971	15Ω 5% 0603 0.62W
3021	9965 000 23109	22Ω 5% 0603
3022	4822 051 30681	680Ω 5% 0.062W
3023	4822 051 30153	15kΩ 5% 0.062W
3024	2322 704 61803	18kΩ 1% 0603
3025	4822 117 12903	1.8kΩ 1% 0.063W 0603
3026	4822 101 11383	Potm. 470Ω 30% linear
3027	4822 117 13632	100kΩ 1% 0603 0.62W
3028	4822 051 30102	1kΩ 5% 0.062W
3028	4822 051 30332	3.3Ω 5% 0.062W
3029	4822 051 30222	2.2kΩ 5% 0.062W
3029	4822 051 30332	3.3Ω 5% 0.062W
3030	4822 051 30183	18kΩ 5% 0.062W
3031	4822 051 30103	10kΩ 5% 0.062W
3031	4822 051 30223	22kΩ 5% 0.062W
3032	4822 051 30103	10kΩ 5% 0.062W
3033	4822 052 11108	1Ω 5% 0.5W
3034	4822 051 30102	1kΩ 5% 0.062W
3035	4822 051 30332	3.3Ω 5% 0.062W
3036	4822 117 13632	100kΩ 1% 0603 0.62W
3037	4822 051 30153	15kΩ 5% 0.062W
3038	4822 051 30333	33kΩ 5% 0.062W
3039	4822 051 30102	1kΩ 5% 0.062W
3040	5322 117 13056	8.2kΩ 1% 0.063W 0603
3041	4822 051 30333	33kΩ 5% 0.062W
3042	4822 051 30123	12kΩ 5% 0.1W
3043	4822 051 30109	10Ω 5% 0.062W
3044	4822 051 30471	47Ω 5% 0.062W
3045	4822 117 12971	15Ω 5% 0603 0.62W
3045	9965 000 23109	22Ω 5% 0603
3046	4822 117 12971	15Ω 5% 0603 0.62W
3046	9965 000 23109	22Ω 5% 0603
3047	4822 051 30479	47Ω 5% 0.062W
3048	4822 051 30272	2.7kΩ 5% 0.062W
3049	4822 051 30333	33kΩ 5% 0.062W
3050	4822 050 28204	820kΩ 1% 0.6W
3051	4822 051 30472	4.7Ω 5% 0.062W
3052	2322 704 63303	33kΩ 1% 0603
3052	2322 704 67502	7.5kΩ 1% 0.5W
3053	4822 050 26804	680kΩ 1% 0.6W
3054	4822 051 30472	4.7Ω 5% 0.062W
3055	4822 051 30221	220Ω 5% 0.062W
3056	4822 051 30221	220Ω 5% 0.062W
3057	4822 051 30221	220Ω 5% 0.062W
3058	4822 053 20565	5.6MΩ 5% 0.25W
3059	4822 051 30222	2.2kΩ 5% 0.062W
3061	4822 051 30683	68kΩ 5% 0.062W
3064	4822 051 30103	10kΩ 5% 0.062W
3065	4822 051 30682	6.8Ω 5% 0.062W
3065	4822 117 12925	47kΩ 1% 0.063W 0603
3065	4822 117 13632	100kΩ 1% 0603 0.62W
3066	4822 051 30103	10kΩ 5% 0.062W
3067	4822 051 30101	100Ω 5% 0.062W
3068	4822 051 30222	2.2kΩ 5% 0.062W
3070	4822 051 30102	1kΩ 5% 0.062W
3071	4822 051 30103	10kΩ 5% 0.062W
3075	4822 051 30102	1kΩ 5% 0.062W
3076	4822 050 22702	2.7kΩ 1% 0.6W
3077	4822 050 22702	2.7kΩ 1% 0.6W
3078	4822 050 22702	2.7kΩ 1% 0.6W
3079	4822 050 22702	2.7kΩ 1% 0.6W
3080	4822 050 22702	2.7kΩ 1% 0.6W
3081	4822 050 22702	2.7kΩ 1% 0.6W
3082	4822 050 22702	2.7kΩ 1% 0.6W
3100	4822 051 30109	10Ω 5% 0.062W
3292	4822 051 30561	560Ω 5% 0.062W
3400▲	2122 550 00158	VDR 1mA 612V
3401▲	4822 053 21475	4.7MΩ 5% 0.5W
3402▲	4822 053 21475	4.7MΩ 5% 0.5W
3403▲	4822 053 21475	4.7MΩ 5% 0.5W
3404	4822 116 83872	220Ω 5% 0.5W
3406▲	4822 052 10101	100Ω 5% 0.33W
3407▲	4822 052 10101	100Ω 5% 0.33W
3810	2322 257 41123	12kΩ 5% 5W
3999	4822 051 30102	1kΩ 5% 0.062W
3B92	4822 051 30561	560Ω 5% 0.062W
3D00▲	2122 550 00158	VDR 1mA 612V
3D04	4822 116 83872	220Ω 5% 0.5W
3H10	2322 257 41123	12kΩ 5% 5W
3U00▲	4822 052 10478	4.7Ω 5% 0.33W
3U01	4822 051 30101	100Ω 5% 0.062W
3U02	4822 051 30103	10kΩ 5% 0.062W
3U03	4822 117 13632	100kΩ 1% 0603 0.62W
3U04	4822 051 30273	27kΩ 5% 0.062W
3U05	4822 051 30333	33kΩ 5% 0.062W
3U06	4822 051 30103	10kΩ 5% 0.062W
3U07	4822 051 30103	10kΩ 5% 0.062W
3U08	4822 051 30331	330Ω 5% 0.062W
3U09	4822 051 30332	3.3Ω 5% 0.062W
3U10	4822 051 30471	47Ω 5% 0.062W
3U11	4822 051 30471	47Ω 5% 0.062W
3U12	4822 051 30153	15kΩ 5% 0.062W
3U13	4822 051 30103	10kΩ 5% 0.062W
3U14▲	4822 052 10101	100Ω 5% 0.33W
3U15▲	4822 052 10479	47Ω 5% 0.33W
3U16	4822 051 30222	2.2kΩ 5% 0.062W
3U17▲	4822 052 10101	100Ω 5% 0.33W
3U18▲	4822 052 10479	47Ω 5% 0.33W
3U19	4822 051 30222	2.2kΩ 5% 0.062W
3U20	4822 051 30222	2.2kΩ 5% 0.062W
3U21	9965 000 23109	22Ω 5% 0603
3U22	4822 051 30681	680Ω 5% 0.062W
3U23	4822 051 30153	15kΩ 5% 0.062W
3U24	5322 117 13033	15kΩ 1% 0.063W 0603
3U25	4822 117 12903	1.8kΩ 1% 0.063W 0603
3U26	4822 101 11383	Potm. 470Ω 30% linear
3U27	4822 117 13632	100kΩ 1% 0603 0.62W
3U28	4822 051 30102	1kΩ 5% 0.062W
3U29	4822 051 30222	2.2kΩ 5% 0.062W
3U30	4822 051 30183	18kΩ 5% 0.062W
3U31	4822 051 30223	22kΩ 5% 0.062W
3U32	4822 051 30103	10kΩ 5% 0.062W
3U34	4822 051 30102	1kΩ 5% 0.062W
3U38	4822 051 30333	33kΩ 5% 0.062W
3U40	5322 117 13056	8.2kΩ 1% 0.063W 0603
3U41	4822 051 30333	33kΩ 5% 0.062W
3U43	4822 051 30109	10Ω 5% 0.062W
3U45	9965 000 23109	22Ω 5% 0603
3U46	9965 000 23109	22Ω 5% 0603
3U47	4822 051 30479	47Ω 5% 0.062W
3U48	4822 051 30272	2.7kΩ 5% 0.062W
3U50	4822 050 28204	820kΩ 1% 0.6W
3U52	4822 051 30221	220Ω 5% 0.062W
3U53	4822 050 26804	680kΩ 1% 0.6W
3U55	4822 051 30221	220Ω 5% 0.062W
3U56	4822 051 30221	220Ω 5% 0.062W
3U57	4822 051 30221	220Ω 5% 0.062W
3U58	4822 053 20565	5.6MΩ 5% 0.25W
3U61	4822 051 30683	68kΩ 5% 0.062W
3U64	4822 051 30103	10kΩ 5% 0.062W
3U65	4822 051 30682	6.8Ω 5% 0.062W
3U65	4822 117 12925	47kΩ 1% 0.063W 0603
3U66	4822 051 30103	10kΩ 5% 0.062W
3U67	4822 051 30101	100Ω 5% 0.062W
3U68	4822 051 30222	2.2kΩ 5% 0.062W
3U70	4822 051 30102	1kΩ 5% 0.062W
3U71	4822 051 30103	10kΩ 5% 0.062W
3U75	4822 051 30102	1kΩ 5% 0.062W
9002	4822 051 30008	Jumper 0603
9009	4822 051 30008	Jumper 0603
9030	4822 051 30008	Jumper 0603
9047	4822 051 30008	Jumper 0603
9085	4822 051 30008	Jumper 0603
9U02	4822 051 30008	Jumper 0603
9U57	4822 051 30008	Jumper 0603

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5001▲	2422 531 02444	Transf. S13932-04Y
5002▲	3104 308 21111	Transf. BS51312-01
5002▲	8204 000 77321	Transf. 2652.0002
5004	4822 526 10704	Bead 50 Ω at 100MHz
5005	4822 157 11411	Bead 80Ω at 100MHz
5005	4822 526 10704	Bead 50 Ω at 100MHz
5007	4822 157 11411	Bead 80Ω at 100MHz
5007	4822 526 10704	Bead 50 Ω at 100MHz
5008	4822 157 11411	Bead 80Ω at 100MHz
5008	4822 526 10704	Bead 50 Ω at 100MHz
5009	4822 157 11411	Bead 80Ω at 100MHz
5010	4822 157 11411	Bead 80Ω at 100MHz
5013	4822 157 11411	Bead 80Ω at 100MHz
5013	4822 526 10704	Bead 50 Ω at 100MHz
5015	4822 157 11411	Bead 80Ω at 100MHz
5016	4822 157 11411	Bead 80Ω at 100MHz
5017	4822 526 10704	Bead 50 Ω at 100MHz
5025	4822 157 11411	Bead 80Ω at 100MHz
5026	4822 157 11411	Bead 80Ω at 100MHz
5026	4822 526 10704	Bead 50 Ω at 100MHz
5027	4822 157 11411	Bead 80Ω at 100MHz
5028	4822 157 11411	Bead 80Ω at 100MHz
5028	4822 526 10704	Bead 50 Ω at 100MHz
5029	4822 526 10704	Bead 50 Ω at 100MHz
5030	4822 526 10704	Bead 50 Ω at 100MHz
5031	4822 526 10704	Bead 50 Ω at 100MHz
5032	4822 526 10704	Bead 50 Ω at 100MHz
5033	4822 526 10704	Bead 50 Ω at 100MHz
5034	4822 526 10704	Bead 50 Ω at 100MHz
5040	4822 157 11411	Bead 80Ω at 100MHz
5041	4822 526 10704	Bead 50 Ω at 100MHz
5291	2422 536 00776	33μH 10%
5292	2422 536 00776	33μH 10%
5293	2422 536 00776	33μH 10%
5400▲	4822 157 11523	Line filter 5mH/2A
5401▲	2422 549 43291	Filter 47mH 2A
5402▲	2422 549 43291	Filter 47mH 2A
5403▲	3104 308 21101	Coil DTH40203H65
5403▲	3104 308 21191	Coil DTH40323H65
5B91	4822 157 71467	39μH 10%
5B92	4822 157 71467	39μH 10%
5B93	4822 157 71467	39μH 10%
5D00▲	4822 157 11523	Line filter 5mH/2A
5D01▲	2422 549 43291	Filter 47mH 2A
5D02▲	2422 549 43291	Filter 47mH 2A
5D03▲	3104 308 21101	Coil DTH40203H65
5U01▲	2422 531 02444	Transf. S13932-04Y
5U02▲	3104 308 21111	Transf. BS51312-01
5U04	4822 526 10704	Bead 50 Ω at 100MHz
5U05	4822 157 11411	Bead 80Ω at 100MHz
5U07	4822 157 11411	Bead 80Ω at 100MHz
5U08	4822 157 11411	Bead 80Ω at 100MHz
5U09	4822 157 11411	Bead 80Ω at 100MHz
5U10	4822 157 11411	Bead 80Ω at 100MHz
5U13	4822 157 11411	Bead 80Ω at 100MHz
5U15	4822 157 11411	Bead 80Ω at 100MHz
5U16	4822 157 11411	Bead 80Ω at 100MHz
5U17	4822 526 10704	Bead 50 Ω at 100MHz
5U25	4822 157 11411	Bead 80Ω at 100MHz
5U26	4822 157 11411	Bead 80Ω at 100MHz
5U40	4822 157 11411	Bead 80Ω at 100MHz
5U41	4822 526 10704	Bead 50 Ω at 100MHz

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6001	4822 130 11397	BAS316
6002	4822 130 11397	BAS316
6003	4822 130 11397	BAS316
6004	4822 130 11397	BAS316
6004	4822 130 80622	BAT54
6005	4822 130 11397	BAS316
6005	4822 130 80622	BAT54
6006	4822 130 11397	BAS316
6007	4822 130 11397	BAS316
6008	4822 130 11397	BAS316
6009	4822 130 11152	UDZ18B
6010	4822 130 11397	BAS316
6011	4822 130 11397	BAS316
6012	9322 197 30685	SML4744
6013	9322 197 30685	SML4744
6014	4822 130 11596	BYW29EX-200
6017	4822 130 11397	BAS316
6020	4822 130 11397	BAS316
6021	9322 192 03687	STPS20H100CFP
6021	9322 207 11687	STPS20L45CT
6022	4822 130 11148	UDZ47B
6023	4822 130 11397	BAS316
6025	9322 207 11687	STPS20L45CT
6027	4822 130 11397	BAS316
6028	4822 130 11397	BAS316
6030	4822 130 11397	BAS316
6044	9322 205 63687	STPS20L40CT
6044	9322 207 11687	STPS20L45CT
6045	9322 207 11687	STPS20L45CT
6051	4822 130 11397	BAS316
6054	4822 130 11551	UDZS10B
6077	9322 202 55685	BYG20D
6078	5322 130 31938	BYV27-200
6078	9322 202 55685	BYG20D
6079	9322 202 55685	BYG20D
6080	9322 202 55685	BYG20D
6081	9340 548 67115	PDZ27B
6156	9322 099 61685	BYG10J
6157	9322 099 61685	BYG10J
6158	9322 099 61685	BYG10J
6159	9322 099 61685	BYG10J
6291	4822 130 11572	STPS1H100F
6293	4822 130 11572	STPS1H100F
6460	4822 130 11397	BAS316

6461	4822 130 11397	BAS316
6506	4822 130 83147	DF06M
6807	9322 199 39682	GBJ6J-B12
6807	9322 199 74682	GBJ6J-B15
6B91	4822 130 11596	BYW29EX-200
6B93	4822 130 11596	BYW29EX-200
6D60	4822 130 11397	BAS316
6D61	4822 130 11397	BAS316
6H07	9322 199 74682	GBJ6J-B15
6U01	4822 130 11397	BAS316
6U02	4822 130 11397	BAS316
6U03	4822 130 11397	BAS316
6U04	4822 130 11397	BAS316
6U04	4822 130 80622	BAT54
6U05	4822 130 11397	BAS316
6U05	4822 130 80622	BAT54
6U06	4822 130 11397	BAS316
6U07	4822 130 11397	BAS316
6U08	4822 130 11397	BAS316
6U09	4822 130 11152	UDZ18B
6U10	4822 130 11397	BAS316
6U11	4822 130 11397	BAS316
6U12	9322 197 30685	SML4744
6U13	9322 197 30685	SML4744
6U17	4822 130 11397	BAS316
6U20	4822 130 11397	BAS316
6U21	9322 192 03687	STPS20H100CFP
6U22	4822 130 11148	UDZ4.7B
6U23	4822 130 11397	BAS316
6U27	4822 130 11397	BAS316
6U28	4822 130 11397	BAS316
6U51	4822 130 11397	BAS316
6U77	9322 202 55685	BYG22D
6U78	5322 130 31938	BYV27-200
6U79	9322 202 55685	BYG22D
6U81	9340 548 67115	PDZ22B

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7001	9322 108 21682	MC34067P
7002	9322 149 04682	TCET1102
7004	3198 010 42310	BC847BW
7005	9322 192 18687	STP15NK50ZFP
7005	9322 205 26687	FQPF18N50V2
7006	9322 192 18687	STP15NK50ZFP
7006	9322 205 26687	FQPF18N50V2
7007	3198 010 42320	BC857BW
7008	3198 010 42320	BC857BW
7009	3198 010 42320	BC857BW
7010	4822 209 16406	TL431ACD
7010	9322 125 09668	TL431AID
7017	3198 010 42320	BC857BW
7018	3198 010 42310	BC847BW
7030	3198 010 42310	BC847BW
7031	3198 010 42310	BC847BW
7U01	9322 108 21682	MC34067P
7U02	9322 149 04682	TCET1102
7U04	3198 010 42310	BC847BW
7U05	9322 192 18687	STP15NK50ZFP
7U06	9322 192 18687	STP15NK50ZFP
7U07	3198 010 42320	BC857BW
7U08	3198 010 42320	BC857BW
7U09	3198 010 42320	BC857BW
7U10	4822 209 16406	TL431ACD
7U17	3198 010 42320	BC857BW
7U18	3198 010 42310	BC847BW
7U30	3198 010 42310	BC847BW

Ambi Light Inverter Panel [AL] (FTL2.1E Top)

Various

0615	3104 317 09401	SW (check Prod. Survey)
1010▲	2422 086 00657	Fuse 3A 125V F SMD
1050	2422 543 01431	Xtal 20MHz 16pF
1M10	2422 025 09406	Connector 4p m
1M11	2422 025 12485	Connector 11p m
1M12	4822 267 10735	Connector 3p m
1M13	2422 025 12485	Connector 11p m
1M14	4822 267 10735	Connector 3p m
1M48	2422 025 10768	Connector 3p m

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2001	2020 012 00018	1000µF 20% 16V
2002	2238 586 59812	100nF 20% 50V 0603
2003	2020 552 96618	1nF 10% 50V 0402
2004	2020 552 96618	1nF 10% 50V 0402
2005	3198 034 01590	15pF 1% 50V 0402
2006	3198 034 01590	15pF 1% 50V 0402
2007	4822 126 14238	2.2nF 50V 0603
2008	4822 126 14238	2.2nF 50V 0603
2009	4822 126 14238	2.2nF 50V 0603
2010	4822 126 14238	2.2nF 50V 0603
2011	4822 126 14238	2.2nF 50V 0603
2012	4822 126 14238	2.2nF 50V 0603
2021	2020 552 96683	220nF 10% 50V
2023	2020 552 96683	220nF 10% 50V
2024	2020 552 96683	220nF 10% 50V
2030	2020 552 96683	220nF 10% 50V
2032	2020 552 96683	220nF 10% 50V
2033	2020 552 96683	220nF 10% 50V
2040	2020 552 96683	220nF 10% 50V
2043	2020 552 96683	220nF 10% 50V
2045	2020 552 96683	220nF 10% 50V
2050	2020 552 96683	220nF 10% 50V
2052	2020 552 96683	220nF 10% 50V
2055	2020 552 96683	220nF 10% 50V
2060	2020 552 96683	220nF 10% 50V
2062	2020 552 96683	220nF 10% 50V
2064	2020 552 96683	220nF 10% 50V
2071	2020 552 96683	220nF 10% 50V
2074	2020 552 96683	220nF 10% 50V
2075	2020 552 96683	220nF 10% 50V

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3001	4822 117 13545	100Ω 1% 0402
3002	4822 117 13545	100Ω 1% 0402
3003	4822 117 13596	220Ω 5% 0.01W 0402
3004	4822 051 20471	470Ω 5% 0.1W
3005	4822 051 20561	560Ω 5% 0.1W
3006	2322 762 60102	1kΩ 5% 2512
3007	2322 762 60102	1kΩ 5% 2512
3008	4822 051 20471	470Ω 5% 0.1W
3009	4822 051 20561	560Ω 5% 0.1W
3010	2322 762 60102	1kΩ 5% 2512
3011	2322 762 60102	1kΩ 5% 2512
3012	4822 051 20471	470Ω 5% 0.1W
3013	4822 051 20561	560Ω 5% 0.1W
3014	2322 762 60102	1kΩ 5% 2512
3015	2322 762 60102	1kΩ 5% 2512
3016	3198 031 04720	4.7kΩ 5% 0402
3017	3198 031 04720	4.7kΩ 5% 0402
3018	3198 031 04720	4.7kΩ 5% 0402
3019	3198 031 04720	4.7kΩ 5% 0402
3020	3198 031 04720	4.7kΩ 5% 0402
3022	4822 117 13545	100Ω 1% 0402
3023	4822 117 13545	100Ω 1% 0402
3024	3198 031 04720	4.7kΩ 5% 0402
3025	3198 031 04720	4.7kΩ 5% 0402
3028	4822 117 13606	10kΩ 5% 0.01W 0402
3029	3198 031 04720	4.7kΩ 5% 0402
3030	3198 031 04720	4.7kΩ 5% 0402
3031	3198 031 04720	4.7kΩ 5% 0402
3999	3198 021 31820	1.8kΩ 5% 0.062W 0603
3999	4822 051 30102	1kΩ 5% 0.062W

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5002	2422 536 00923	22µH 10% LHL10
5004▲	3104 308 21271	Transf. BD21416-00
5005▲	3104 308 21271	Transf. BD21416-00
5006▲	3104 308 21271	Transf. BD21416-00
5007	2422 536 00923	22µH 10% LHL10
5008	2422 536 00923	22µH 10% LHL10

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6000	4822 130 11397	BAS316
6001	4822 130 11397	BAS316
6002	4822 130 11397	BAS316
6003	4822 130 11397	BAS316
6004	4822 130 11397	BAS316
6005	4822 130 11397	BAS316
6006	4822 130 11152	UDZ18B
6007	4822 130 11152	UDZ18B
6008	4822 130 11152	UDZ18B
6009	4822 130 11152	UDZ18B
6010	4822 130 11152	UDZ18B
6011	4822 130 11152	UDZ18B

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7001		For SW see item 0615
7002	9322 202 58668	LD1117DT50
7009	3198 010 42310	BC847BW
7010	3198 010 42310	BC847BW
7011	3198 010 42310	BC847BW
7015	9322 214 20668	SI4946EY
7016	9322 214 20668	SI4946EY
7017	9322 214 20668	SI4946EY
7018	3198 010 42310	BC847BW
7019	3198 010 42310	BC847BW
7020	3198 010 42310	BC847BW

Small Signal Board [B] (FTL2.1E Top)

Various

0601	3104 317 08781	SW (see Prod. Survey)
0602	3104 317 07861	SW (see Prod. Survey)
0603	3104 317 06591	SW (see Prod. Survey)
0605	3104 317 47611	SW (see Prod. Survey) Only for 32-in Sharp LCD
0605	3104 317 47621	SW (see Prod. Survey) For all, except 32" Sharp
1000	2422 086 11092	Fuse 500mA 50V F SMD
1001	2422 543 89022	Xtal 6MHz 20p
1305	2422 543 01184	Xtal 4.433619MHz 20p
1308	2422 543 01183	Xtal 3.579545MHz 16p
1403	2422 086 11092	Fuse 500mA 50V F SMD
1404	2422 127 00543	Switch 1p 2 pos
1407	2422 549 43324	Filt. 5.5/5.74MHz
1408	2422 549 44372	SAW 38.9MHz K3953L
1409	2422 549 44369	SAW 38.9MHz K9656L
1702	2422 540 98456	Resonator 12MHz
1A00	2422 543 89019	Xtal 18.432MHz 12p
1D01	2422 033 00515	Socket DVI-I 29p f
1E02	2422 025 17274	Connector 10p m
1E04	2422 025 17103	Connector 3p m SMD
1G50	2422 025 18427	Connector 31p f
1I01	2422 025 18133	Socket SCART
1I04	2422 025 18133	Socket SCART
1I05	2422 026 05054	Soc CINCH 2p f WhRd
1I05	2422 026 05539	Socket Cinch 2p f WhRd
1I06	2422 026 05527	Socket Cinch 2p f
1I07	2422 026 05054	Soc CINCH 2p f WhRd
1I53	2422 549 45325	Bead 67Ω at 100MHz
1I56	2422 549 45325	Bead 67Ω at 100MHz
1I57	2422 549 45325	Bead 67Ω at 100MHz
1I59	2422 549 45325	Bead 67Ω at 100MHz
1I63▲	2422 086 00623	Fuse 3A T 125V
1I79▲	2422 086 00623	Fuse 3A T 125V
1M01	2422 025 10768	Connector 3p m
1M03	2422 025 10771	Connector 10p m
1M07	4822 267 10637	Connector 5p
1M15	4822 267 10748	Connector 3p
1M17	2422 025 17765	Connector 7p m
1M20	2422 025 10772	Connector 12p m
1M36	2422 025 10655	Connector 11p m
1M46	2422 025 10655	Connector 11p m
1M48	2422 025 10768	Connector 3p m
1M49	2422 025 10768	Connector 3p m
1M52	2422 025 10769	Connector 9p m
1P00	2422 543 01184	Xtal 4.433619MHz 20p
1P03	2422 543 01183	Xtal 3.579545MHz 16p
1P04	2422 549 44369	SAW 38.9MHz K9656L
1P06	2422 549 44372	SAW 38.9MHz K3953L
1P09	2422 549 44324	Filt. 5.5/5.74MHz
1P10	4822 242 81299	Filter 6.5 MHz
1P11	4822 242 10314	Filter 5.5 MHz
1P12	4822 242 81265	Filter 6.0 MHz
1T01	3139 147 20201	Tuner UV1318ST/AIH-3
1T02	3139 147 19801	Tuner UV1318S/A IH -3
1U01▲	2422 086 11112	Fuse 1A T 125V
8192	3104 311 07711	Wire phono M/170/IEC
8220	3104 311 07281	Cable 12P/680/12P
8301	3104 311 06831	Cable 3P/680/3P
8301	3104 311 07011	Cable 3P/820/3P
8303	3104 311 06511	Cable 10p/280/10p
8303	3104 311 07841	Cable 10P/220/10P
8303	3104 311 07971	Cable 10P/280/10P
8307	3104 311 05691	Cable 5p/100/5p
8308	3104 311 06751	Cable 2P3/120/Inlet
8308	3104 311 06951	Cable 2P3/180/2P
8308	3104 311 08061	Cable 2P3/120/Inlet
8317	3104 311 07871	Cable 7P/180/7P
8320	3104 311 06541	Cable 10P/560/10P
8320	3104 311 07291	Cable 12P/820/12P
8336	3104 311 07001	Cable 11P/400/11P
8336	3104 311 07111	Cable 11P/340/11P
8336	3104 311 07131	Cable 11P/340/11P
8336	3104 311 07461	Cable 11P/560/11P
8336	3104 311 07471	Cable 11P/680/11P
8337	3104 311 06991	Cable 11P/280/11P
8337	3104 311 07451	Cable 11P/220/11P
8346	3104 311 06991	Cable 11P/280/11P
8346	3104 311 07401	Cable 11P/180/11P
8348	3104 311 00351	Cable 3p/400/3p
8348	3104 311 02141	Cable 3P/480/3P

8348	3104 311 07781	Cable 3p/480/3p Wh
8349	3104 311 07781	Cable 3p/480/3p Wh
8349	3104 311 08871	Cable 3P/480/3P
8350	3104 311 07601	Cable 5P/1K0/5P
8350	3104 311 07961	Cable 5P/1K2/5P
8352	3104 311 06061	Cable 9P/180/9P
8352	3104 311 06811	Cable 9P/340/9P
8436	3104 311 07471	Cable 11P/680/11P

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2002	3198 034 02790	47pF 1% 50V 0402
2003	2238 780 15654	220nF 10% 16V 0805
2004	2238 780 15654	220nF 10% 16V 0805
2005	2238 586 59812	100nF 20% 50V 0603
2006	2238 586 59812	100nF 20% 50V 0603
2007	2238 586 59812	100nF 20% 50V 0603
2008	2238 586 59812	100nF 20% 50V 0603
2010	3198 034 04790	27pF 1% 50V 0402
2011	3198 034 04790	27pF 1% 50V 0402
2012	3198 034 04790	27pF 1% 50V 0402
2013	2020 021 91557	100μF 20% 16V
2016	4822 124 12095	100μF 20% 16V
2017	2238 586 59812	100nF 20% 50V 0603
2018	4822 126 14324	33pF 5% 50V 0402
2019	2238 586 59812	100nF 20% 50V 0603
2020	2238 869 15221	220pF 1% 50V 0402
2022	2238 586 59812	100nF 20% 50V 0603
2023	2238 586 59812	100nF 20% 50V 0603
2024	2238 586 59812	100nF 20% 50V 0603
2025	2238 586 59812	100nF 20% 50V 0603
2026	2238 586 59812	100nF 20% 50V 0603
2027	2238 586 59812	100nF 20% 50V 0603
2028	2238 586 59812	100nF 20% 50V 0603
2029	2238 586 59812	100nF 20% 50V 0603
2031	2238 586 59812	100nF 20% 50V 0603
2033	2238 869 75829	82pF 5% 50V 0402
2034	2238 869 75829	82pF 5% 50V 0402
2035	2238 869 75829	82pF 5% 50V 0402
2036	2238 869 75829	82pF 5% 50V 0402
2037	2238 869 75829	82pF 5% 50V 0402
2038	2238 586 59812	100nF 20% 50V 0603
2039	2238 586 59812	100nF 20% 50V 0603
2040	2238 586 59812	100nF 20% 50V 0603
2063	2238 586 59812	100nF 20% 50V 0603
2067	2238 586 59812	100nF 20% 50V 0603
2074	2238 586 59812	100nF 20% 50V 0603
2075	2238 586 59812	100nF 20% 50V 0603
2305	2238 586 59812	100nF 20% 50V 0603
2316	2238 586 59812	100nF 20% 50V 0603
2322	2238 586 59812	100nF 20% 50V 0603
2324	5322 126 11583	10nF 10% 50V 0603
2350	2238 586 59812	100nF 20% 50V 0603
2351	2238 586 59812	100nF 20% 50V 0603
2352	2238 586 59812	100nF 20% 50V 0603
2356	2238 586 59812	100nF 20% 50V 0603
2357	2238 586 59812	100nF 20% 50V 0603
2358	3198 035 03320	3.3nF 5% 50V 0402
2359	3198 034 01590	15pF 1% 50V 0402
2360	3198 034 01280	1.2pF 1% 50V 0402
2361	3198 034 01280	1.2pF 1% 50V 0402
2362	3198 034 01290	12pF 1% 50V 0402
2365	2238 586 59812	100nF 20% 50V 0603
2366	2238 586 59812	100nF 20% 50V 0603
2367	2238 586 59812	100nF 20% 50V 0603
2368	2238 586 59812	100nF 20% 50V 0603
2369	2238 586 59812	100nF 20% 50V 0603
2370	2238 586 59812	100nF 20% 50V 0603
2371	2020 552 96793	4.7nF 10% 50V 0402
2371	3198 035 14720	4.7nF 5% 25V 0402
2372	2022 552 05679	1μF 10% 16V 0805
2373	2238 586 59812	100nF 20% 50V 0603
2374	2022 552 05679	1μF 10% 16V 0805
2375	2238 787 15641	22nF 5% 16V 0402
2376	2238 586 59812	100nF 20% 50V 0603
2377	2020 021 91557	100μF 20% 16V
2378	2238 586 59812	100nF 20% 50V 0603
2384	2238 586 59812	100nF 20% 50V 0603
2387	2022 552 05679	1μF 10% 16V 0805
2390	2238 586 59812	100nF 20% 50V 0603
2391	2238 586 59812	100nF 20% 50V 0603
2392	2022 552 05679	1μF 10% 16V 0805
2394	2022 552 05679	1μF 10% 16V 0805
2403	2238 586 59812	100nF 20% 50V 0603
2404	2022 552 05679	1μF 10% 16V 0805
2405	2020 552 96793	4.7nF 10% 50V 0402
2405	3198 035 14720	4.7nF 5% 25V 0402
2406	2238 869 15221	220pF 1% 50V 0402
2407	4822 126 14524	68pF 5% 50V 0402
2408	3198 034 03380	3.3pF 1% 50V 0402
2409	2022 552 05679	1μF 10% 16V 0805
2410	2020 021 91557	100μF 20% 16V
2411	2238 586 59812	100nF 20% 50V 0603
2412	2020 552 96793	4.7nF 10% 50V 0402
2412	3198 035 14720	4.7nF 5% 25V 0402
2414	2020 021 91557	100μF 20% 16V
2415	2238 586 59812	100nF 20% 50V 0603
2416	2022 552 05679	1μF 10% 16V 0805
2417	4822 126 14583	470nF 10% 16V 0805
2418	3198 034 05680	5.6pF 1% 50V 0402
2425	2020 021 91557	100μF 20% 16V
2432	2238 586 59812	100nF 20% 50V 0603
2433	2238 586 59812	100nF 20% 50V 0603
2434	2238 586 59812	100nF 20% 50V 0603
2435	2020 552 96618	1nF 10% 50V 0402
2436	2020 552 96448	1μF 10% 16V 0805
2707	3198 034 02790	47pF 1% 50V 0402
2707	4822 126 14519	22pF 5% 50V 0402
2708	2238 586 59812	100nF 20% 50V 0603
2709	2238 586 59812	100nF 20% 50V 0603
2710	2238 586 59812	100nF 20% 50V 0603
2711	2238 586 59812	100nF 20% 50V 0603
2712	2238 586 59812	100nF 20% 50V 0603
2713	4822 126 14519	22pF 5% 50V 0402
2714	4822 126 14519	22pF 5% 50V 0402
2715	2020 021 91854	10μF 20% 16V
2716	2238 586 59812	100nF 20% 50V 0603
2717	2238 586 59812	100nF 20% 50V 0603
2718	3198 034 01590	15pF 1% 50V 0402
2719	3198 034 01590	15pF 1% 50V 0402
2720	3198 034 01590	15pF 1% 50V 0402
2721	2238 869 15101	100pF 5% 50V 0402
2722	2238 869 15101	100pF 5% 50V 0402
2723	2238 586 59812	100nF 20% 50V 0603
2725	2238 586 59812	100nF 20% 50V 0603
2726	2238 586 59812	100nF 20% 50V 0603
2727	2238 586 59812	100nF 20% 50V 0603
2728	2020 021 91854	10μF 20% 16V
2729	2238 586 59812	100nF 20% 50V 0603
2730	2020 021 91557	100μF 20% 16V
2731	2238 586 59812	100nF 20% 50V 0603
2732	2020 552 96618	1nF 10% 50V 0402
2733	2238 586 59812	100nF 20% 50V 0603
2734	2238 586 59812	100nF 20% 50V 0603
2735	2238 586 59812	100nF 20% 50V 0603
2736	2238 586 59812	100nF 20% 50V 0603
2738	2238 586 59812	100nF 20% 50V 0603
2739	2020 021 91557	100μF 20% 16V
2740	2238 787 15641	22nF 5% 16V 0402
2741	2238 787 15641	22nF 5% 16V 0402
2742	2238 787 15641	22nF 5% 16V 0402
2743	2238 586 59812	100nF 20% 50V 0603
2744	2238 586 59812	100nF 20% 50V 0603
2745	2238 586 59812	100nF 20% 50V 0603
2746	2238 586 59812	100nF 20% 50V 0603
2747	4822 126 14524	68pF 5% 50V 0402
2748	2238 586 59812	100nF 20% 50V 0603
2749	2238 586 59812	100nF 20% 50V 0603
2750	2020 552 96618	1nF 10% 50V 0402
2750	2238 586 59812	100nF 20% 50V 0603
2751	2020 552 96618	1nF 10% 50V 0402
2751	2238 586 59812	100nF 20% 50V 0603
2752	2020 552 96618	1nF 10% 50V 0402
2752	2238 586 59812	100nF 20% 50V 0603
2753	2020 552 96618	1nF 10% 50V 0402
2753	2238 586 59812	100nF 20% 50V 0603
2754	2020 552 96618	1nF 10% 50V 0402
2755	2020 552 96618	1nF 10% 50V 0402
2755	2238 586 59812	100nF 20% 50V 0603
2756	2020 552 96618	1nF 10% 50V 0402
2756	2238 586 59812	100nF 20% 50V 0603
2757	2238 787 15641	22nF 5% 16V 0402
2759	2020 552 96618	1nF 10% 50V 0402
2759	2238 586 59812	100nF 20% 50V 0603
2760	2238 586 59812	100nF 20% 50V 0603
2760	2238 787 15641	22nF 5% 16V 0402
2761	2238 586 59812	100nF 20% 50V 0603
2761	2238 787 15641	22nF 5% 16V 0402
2762	2238 586 59812	100nF 20% 50V 0603
2762	2238 787 15641	22nF 5% 16V 0402
2763	2238 586 59812	100nF 20% 50V 0603
2763	2238 787 15641	22nF 5% 16V 0402
2764	2238 586 59812	100nF 20% 50V 0603
2764	2238 787 15641	22nF 5% 16V 0402
2768	2238 586 59812	100nF 20% 50V 0603
2768	2238 787 15641	22nF 5% 16V 0402
2769	2020 552 96618	1nF 10% 50V 0402
2769	2238 586 59812	100nF 20% 50V 0603
2770	2020 552 96618	1nF 10% 50V 0402
2770	2238 586 59812	100nF 20% 50V 0603
2771	2020 552 96618	1nF 10% 50V 0402
2771	2238 586 59812	100nF 20% 50V 0603
2772	2238 586 59812	100nF 20% 50V 0603
2772	2238 787 15641	22nF 5% 16V 0402
2773	2020 552 96618	1nF 10% 50V 0402
2773	2238 586 59812	100nF 20% 50V 0603
2777	2020 552 96618	1nF 10% 50V 0402
2777	2238 586 59812	100nF 20% 50V 0603
2778	2020 552 96618	1nF 10% 50V 0402
2778	2238 586 59812	100nF 20% 50V 0603
2780	2020 552 96618	1nF 10% 50V 0402
2780	2238 586 59812	100nF 20% 50V 0603
2781	2020 552 96618	1nF 10% 50V 0402
2781	2238 586 59812	100nF 20% 50V 0603
2782	2020 552 96618	1nF 10% 50V 0402
2782	2238 586 59812	100nF 20% 50V 0603
2784	2238 586 59812	100nF 20% 50V 0603
2784	2238 787 15641	22nF 5% 16V 0402
2785	2238 586 59812	100nF 20% 50V 0603
2785	2238 787 15641	22nF 5% 16V 0402
2788	2238 586 59812	100nF 20% 50V 0603
2789	2238 586 59812	100nF 20% 50V 0603
2790	2238 586 59812	100nF 20% 50V 0603
2791	2238 586 59812	100nF 20% 50V 0603
2792	2238 586 59812	100nF 20% 50V 0603
2793	2238 586 59812	100nF 20% 50V 0603
2794	2020 552 96618	1nF 10% 50V 0402
2794	2238 586 59812	100nF 20% 50V 0603
2795	2020 552 96618	1nF 10% 50V 0402
2795	2238 586 59812	100nF 20% 50V 0603
2796	2020 552 96618	1nF 10% 50V 0402
2796	2238 586 59812	100nF 20% 50V 0603
2797	2020 552 96618	1nF 10% 50V 0402
2797	2238 586 59812	100nF 20% 50V 0603
2798	2020 552 96618	1nF 10% 50V 0402
2798	2238 586 59812	100nF 20% 50V 0603
2799	2020 552 96618	1nF 10% 50V 0402
2799	2238 586 59812	100nF 20% 50V 0603
2800	2238 586 59812	100nF 20% 50V 0603
2802	2238 586 59812	100nF 20% 50V 0603
2804	2238 586 59812	100nF 20% 50V 0603
2805	2020 552 96618	1nF 10% 50V 0402
2805	2238 586 59812	100nF 20% 50V 0603
2806	2238 586 59812	100nF 20% 50V 0603
2807	2238 586 59812	100nF 20% 50V 0603
2808	2020 552 96618	1nF 10% 50V 0402
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2809	2020 552 96618	1nF 10% 50V 0402
2809	2238 586 59812	100nF 20% 50V 0603
2810	2238 586 59812	100nF 20% 50V 0603
2811	2238 586 59812	100nF 20% 50V 0603
2812	3198 031 02290	22Ω 5% 0.1W 0402
2813	2238 586 59812	100nF 20% 50V 0603
2817	2238 586 59812	100nF 20% 50V 0603
2819	2238 586 59812	100nF 20% 50V 0603
2821	2238 586 59812	100nF 20% 50V 0603
2821	2238 787 15641	22nF 5% 16V 0402
2822	2238 586 59812	100nF 20% 50V 0603
2822	2238 787 15641	22nF 5% 16V 0402
2823	2238 586 59812	100nF 20% 50V 0603
2824	2238 586 59812	100nF 20% 50V 0603
2825	2238 586 59812	100nF 20% 50V 0603
2826	2238 586 59812	100nF 20% 50V 0603
2827	2238 586 59812	100nF 20% 50V 0603
2829	2020 021 91557	100μF 20% 16V
2830	2238 586 59812	100nF 20% 50V 0603
2831	2238 586 59812	100nF 20% 50V 0603
2832	2238 586 59812	100nF 20% 50V 0603
2833	2238 586 59812	100nF 20% 50V 0603
2834	2238 586 59812	100nF 20% 50V 0603
2835	2238 586 59812	100nF 20% 50V 0603
2836	2238 586 59812	100nF 20% 50V 0603
2837	2238 869 15101	100pF 5% 50V 0402
2838	2238 869 15101	100pF 5% 50V 0402
2839	2238 869 15101	100pF 5% 50V 0402
2840	4822 126 14519	22pF 5% 50V 0402
2841	4822 126 14519	22pF 5% 50V 0402
2844	2238 586 59812	100nF 20% 50V 0603
2845	2238 586 59812	100nF 20% 50V 0603
2846	2238 586 59812	100nF 20% 50V 0603
2847	2020 021 91854	10μF 20% 16V
2848	2238 586 59812	100nF 20% 50V 0603
2849	2238 586 59812	100nF 20% 50V 0603
2850	2238 586 59812	100nF 20% 50V 0603
2851	2238 586 59812	100nF 20% 50V 0603
2852	2238 586 59812	100nF 20% 50V 0603
2853	2238 586 59812	100nF 20% 50V 0603
2854	2238 586 59812	100nF 20% 50V 0603
2855	2238 586 59812	100nF 20% 50V 0603
2856	2238 586 59812	100nF 20% 50V 0603
2857	2238 586 59812	100nF 20% 50V 0603
2858	2238 586 59812	100nF 20% 50V 0603
2859	2238 586 59812	100nF 20% 50V 0603
2860	2238 586 59812	100nF 20% 50V 0603
2861	2238 586 59812	100nF 20% 50V 0603
2862	2238 586 59812	100nF 20% 50V 0603
2863	2238 586 59812	100nF 20% 50V 0603
2864	2238 586 59812	100nF 20% 50V 0603
2865	2238 586 59812	100nF 20% 50V 0603
2866	2238 586 59812	100nF 20% 50V 0603
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2868	2238 586 59812	100nF 20% 50V 0603
2869	2238 586 59812	100nF 20% 50V 0603
2870	2238 586 59812	100nF 20% 50V 0603
2871	2020 021 91557	100µF 20% 16V
2872	2238 586 59812	100nF 20% 50V 0603
2873	2238 586 59812	100nF 20% 50V 0603
2874	2238 586 59812	100nF 20% 50V 0603
2875	2238 586 59812	100nF 20% 50V 0603
2876	2238 586 59812	100nF 20% 50V 0603
2877	2238 586 59812	100nF 20% 50V 0603
2878	2238 586 59812	100nF 20% 50V 0603
2879	2238 586 59812	100nF 20% 50V 0603
2880	2238 586 59812	100nF 20% 50V 0603
2881	3198 034 02790	47pF 1% 50V 0402
2882	2238 586 59812	100nF 20% 50V 0603
2883	2238 586 59812	100nF 20% 50V 0603
2884	2238 586 59812	100nF 20% 50V 0603
2885	2238 586 59812	100nF 20% 50V 0603
2886	2238 586 59812	100nF 20% 50V 0603
2887	2238 586 59812	100nF 20% 50V 0603
2888	2238 586 59812	100nF 20% 50V 0603
2889	2020 021 91557	100µF 20% 16V
2890	2238 586 59812	100nF 20% 50V 0603
2891	2238 586 59812	100nF 20% 50V 0603
2892	2238 586 59812	100nF 20% 50V 0603
2893	2238 586 59812	100nF 20% 50V 0603
2894	2238 586 59812	100nF 20% 50V 0603
2895	2020 021 91854	10µF 20% 16V
2896	2020 021 91557	100µF 20% 16V
2897	2238 586 59812	100nF 20% 50V 0603
2898	2020 021 91854	10µF 20% 16V
2899	2238 586 59812	100nF 20% 50V 0603
2914	2238 586 59812	100nF 20% 50V 0603
2917	2238 586 59812	100nF 20% 50V 0603
2919	2020 021 91557	100µF 20% 16V
2920	2238 586 59812	100nF 20% 50V 0603
2921	2238 586 59812	100nF 20% 50V 0603
2922	2020 552 96628	10nF 10% 16V 0402
2923	2020 552 96628	10nF 10% 16V 0402
2924	2238 586 59812	100nF 20% 50V 0603
2925	2020 552 96618	1nF 10% 50V 0402
2926	2238 869 15101	100pF 5% 50V 0402
2927	2238 869 15101	100pF 5% 50V 0402
2928	2238 869 15101	100pF 5% 50V 0402
2937	2020 021 91557	100µF 20% 16V
2939	2020 021 91557	100µF 20% 16V
2A00	2020 552 96618	1nF 10% 50V 0402
2A01	2020 552 96618	1nF 10% 50V 0402
2A02	2022 552 05679	1µF 10% 16V 0805
2A03	2020 021 91557	100µF 20% 16V
2A04	2022 552 05679	1µF 10% 16V 0805
2A05	2020 021 91557	100µF 20% 16V
2A06	2020 552 96618	1nF 10% 50V 0402
2A07	2020 552 96618	1nF 10% 50V 0402
2A08	2022 552 05679	1µF 10% 16V 0805
2A10	2238 586 59812	100nF 20% 50V 0603
2A11	2238 586 59812	100nF 20% 50V 0603
2A14	2020 552 96618	1nF 10% 50V 0402
2A15	2020 021 91557	100µF 20% 16V
2A16	2238 586 59812	100nF 20% 50V 0603
2A17	2020 552 96618	1nF 10% 50V 0402
2A18	2020 021 91557	100µF 20% 16V
2A20	2022 552 05679	1µF 10% 16V 0805
2A21	2238 586 59812	100nF 20% 50V 0603
2A22	2238 586 59812	100nF 20% 50V 0603
2A23	2238 586 59812	100nF 20% 50V 0603
2A25	2238 869 15101	100pF 5% 50V 0402
2A26	2022 552 05679	1µF 10% 16V 0805
2A26	2238 586 59812	100nF 20% 50V 0603
2A27	2020 552 96618	1nF 10% 50V 0402
2A29	2238 869 15101	100pF 5% 50V 0402
2A30	2238 869 15101	100pF 5% 50V 0402
2A31	2022 552 05679	1µF 10% 16V 0805
2A31	2238 586 59812	100nF 20% 50V 0603
2A32	2238 869 15101	100pF 5% 50V 0402
2A33	2238 586 59812	100nF 20% 50V 0603
2A35	2020 552 96618	1nF 10% 50V 0402
2A36	2238 869 15101	100pF 5% 50V 0402
2A37	2238 869 15101	100pF 5% 50V 0402
2A39	2022 552 05679	1µF 10% 16V 0805
2A40	2238 586 59812	100nF 20% 50V 0603
2A41	2020 021 91854	10µF 20% 16V
2A42	2020 021 91854	10µF 20% 16V
2A43	2020 021 91854	10µF 20% 16V
2A44	2238 586 59812	100nF 20% 50V 0603
2A46	2022 552 05679	1µF 10% 16V 0805
2A47	2020 552 96618	1nF 10% 50V 0402
2A47	2022 552 05679	1µF 10% 16V 0805
2A49	2022 552 05679	1µF 10% 16V 0805
2A50	2020 552 96618	1nF 10% 50V 0402
2A53	2022 552 05679	1µF 10% 16V 0805
2A54	2020 552 96618	1nF 10% 50V 0402
2A56	2022 552 05679	1µF 10% 16V 0805
2A59	2022 552 05679	1µF 10% 16V 0805

2A62	2022 552 05679	1µF 10% 16V 0805
2A64	2238 586 59812	100nF 20% 50V 0603
2A66	2022 552 05679	1µF 10% 16V 0805
2A69	2022 552 05679	1µF 10% 16V 0805
2A70	2022 552 05679	1µF 10% 16V 0805
2A72	2022 552 05679	1µF 10% 16V 0805
2A74	2022 552 05679	1µF 10% 16V 0805
2A75	2022 552 05679	1µF 10% 16V 0805
2A76	2238 586 59812	100nF 20% 50V 0603
2A79	2238 586 59812	100nF 20% 50V 0603
2A80	2022 552 05679	1µF 10% 16V 0805
2A81	2020 552 96618	1nF 10% 50V 0402
2A83	2238 586 59812	100nF 20% 50V 0603
2A88	2238 586 59812	100nF 20% 50V 0603
2A89	2022 552 05679	1µF 10% 16V 0805
2A90	4822 124 12313	22µF 10V 20%
2A91	2238 869 15101	100pF 5% 50V 0402
2A92	2020 552 96618	1nF 10% 50V 0402
2A92	2022 552 05679	1µF 10% 16V 0805
2A95	2238 869 15221	220pF 1% 50V 0402
2A99	2020 552 96618	1nF 10% 50V 0402
2A99	2022 552 05679	1µF 10% 16V 0805
2AA5	2238 869 15101	100pF 5% 50V 0402
2AA6	2020 552 96618	1nF 10% 50V 0402
2AA7	2020 552 96618	1nF 10% 50V 0402
2AA9	3198 034 05680	5.6pF 1% 50V 0402
2AB0	3198 034 05680	5.6pF 1% 50V 0402
2AB2	2020 552 96618	1nF 10% 50V 0402
2AB3	2022 552 05679	1µF 10% 16V 0805
2AB4	2022 552 05679	1µF 10% 16V 0805
2AB5	2020 021 91854	10µF 20% 16V
2AB6	2020 552 96618	1nF 10% 50V 0402
2AB7	2020 552 96618	1nF 10% 50V 0402
2AB8	2022 552 05679	1µF 10% 16V 0805
2C00	2238 586 59812	100nF 20% 50V 0603
2C01	2238 586 59812	100nF 20% 50V 0603
2C02	2238 586 59812	100nF 20% 50V 0603
2D04	2020 552 96618	1nF 10% 50V 0402
2D09	2238 586 59812	100nF 20% 50V 0603
2D10	2022 552 05679	1µF 10% 16V 0805
2D11	2020 552 96628	10nF 10% 16V 0402
2D12	2020 552 96628	10nF 10% 16V 0402
2E01	2238 586 59812	100nF 20% 50V 0603
2E02	2238 586 59812	100nF 20% 50V 0603
2E02	3198 035 71040	100nF 10% 16V 0402
2E03	2238 586 59812	100nF 20% 50V 0603
2E04	2238 586 59812	100nF 20% 50V 0603
2E06	2238 586 59812	100nF 20% 50V 0603
2E07	2238 586 59812	100nF 20% 50V 0603
2E08	2238 586 59812	100nF 20% 50V 0603
2E09	2238 586 59812	100nF 20% 50V 0603
2E10	2238 586 59812	100nF 20% 50V 0603
2E11	2238 586 59812	100nF 20% 50V 0603
2E12	2238 586 59812	100nF 20% 50V 0603
2E13	2238 586 59812	100nF 20% 50V 0603
2E14	2238 586 59812	100nF 20% 50V 0603
2E15	2238 586 59812	100nF 20% 50V 0603
2E16	2238 586 59812	100nF 20% 50V 0603
2E17	2238 586 59812	100nF 20% 50V 0603
2E18	2238 586 59812	100nF 20% 50V 0603
2E19	2238 586 59812	100nF 20% 50V 0603
2E20	2238 586 59812	100nF 20% 50V 0603
2E21	3198 017 34730	47nF 16V 0603
2E22	4822 126 14519	22pF 5% 50V 0402
2E23	3198 017 34730	47nF 16V 0603
2E24	4822 126 14519	22pF 5% 50V 0402
2E25	3198 017 34730	47nF 16V 0603
2E26	4822 126 14519	22pF 5% 50V 0402
2E27	2238 586 59812	100nF 20% 50V 0603
2E28	3198 017 34730	47nF 16V 0603
2E29	3198 017 33330	33nF 20% 16V 0603
2E29	4822 126 14549	33nF 16V 0603
2E30	3198 035 14720	4.7nF 5% 25V 0402
2E34	3198 035 03320	3.3nF 5% 50V 0402
2E35	2238 586 59812	100nF 20% 50V 0603
2E39	2238 869 15109	10pF 5% 50V 0402
2E41	2022 552 05679	1µF 10% 16V 0805
2E41	2238 586 59812	100nF 20% 50V 0603
2E42	2020 552 96628	10nF 10% 16V 0402
2E43	2238 586 59812	100nF 20% 50V 0603
2E49	2238 586 59812	100nF 20% 50V 0603
2E50	4822 124 23237	22µF 6.3V
2E50	4822 124 81058	47µF 20% 4V
2E51	2022 552 05679	1µF 10% 16V 0805
2E52	2238 586 59812	100nF 20% 50V 0603
2E54	2238 586 59812	100nF 20% 50V 0603
2E55	2022 552 05679	1µF 10% 16V 0805
2E56	2020 552 96628	10nF 10% 16V 0402
2E57	2020 552 96628	10nF 10% 16V 0402
2E58	2020 552 96628	10nF 10% 16V 0402
2E59	2020 552 96628	10nF 10% 16V 0402
2E62	2238 586 59812	100nF 20% 50V 0603
2E65	2238 586 59812	100nF 20% 50V 0603
2E66	2238 586 59812	100nF 20% 50V 0603

2E67	2238 586 59812	100nF 20% 50V 0603
2E68	2020 552 96628	10nF 10% 16V 0402
2E69	2020 552 96628	10nF 10% 16V 0402
2E70	2020 552 96628	10nF 10% 16V 0402
2E71	2020 552 96628	10nF 10% 16V 0402
2E72	2238 586 59812	100nF 20% 50V 0603
2E73	2238 586 59812	100nF 20% 50V 0603
2E74	2238 586 59812	100nF 20% 50V 0603
2E75	2238 586 59812	100nF 20% 50V 0603
2E77	2238 586 59812	100nF 20% 50V 0603
2E78	2238 586 59812	100nF 20% 50V 0603
2E79	2238 586 59812	100nF 20% 50V 0603
2E80	2238 586 59812	100nF 20% 50V 0603
2E81	2022 552 05679	1µF 10% 16V 0805
2E82	2238 586 59812	100nF 20% 50V 0603
2E83	2238 586 59812	100nF 20% 50V 0603
2E84	2238 586 59812	100nF 20% 50V 0603
2E86	2238 586 59812	100nF 20% 50V 0603
2E87	4822 124 12095	100µF 20% 16V
2E88	2238 869 15101	100pF 5% 50V 0402
2E89	2238 869 15101	100pF 5% 50V 0402
2E90	2238 869 15101	100pF 5% 50V 0402
2E91	2238 869 15101	100pF 5% 50V 0402
2E92	2238 869 15101	100pF 5% 50V 0402
2E93	2238 586 59812	100nF 20% 50V 0603
2E94	2238 586 59812	100nF 20% 50V 0603
2E96	2238 869 15101	100pF 5% 50V 0402
2E97	2238 869 15101	100pF 5% 50V 0402
2E98	2238 869 15101	100pF 5% 50V 0402
2E99	4822 124 81058	47µF 20% 4V
2I00	2238 869 15101	100pF 5% 50V 0402
2I11	2022 552 05679	1µF 10% 16V 0805
2I12	2022 552 05679	1µF 10% 16V 0805
2I12	4822 126 14585	100nF 10% 0805 50V
2I13	2020 552 96628	10nF 10% 16V 0402
2I14	2020 552 96623	2.2nF 10% 50V 0402
2I15	2020 552 96448	1µF 10% 16V 0805
2I15	2022 552 05679	1µF 10% 16V 0805
2I16	2238 869 15101	100pF 5% 50V 0402
2I17	2238 869 15101	100pF 5% 50V 0402
2I18	2238 869 15101	100pF 5% 50V 0402
2I19	2238 869 15101	100pF 5% 50V 0402
2I20	3198 035 03310	330pF 5% 50V 0402
2I21	2238 869 15101	100pF 5% 50V 0402
2I22	2238 869 15101	100pF 5% 50V 0402
2I23	2238 869 15101	100pF 5% 50V 0402
2I24	2238 869 15101	100pF 5% 50V 0402
2I25	3198 035 03310	330pF 5% 50V 0402
2I26	2238 869 15101	100pF 5% 50V 0402
2I27	2238 869 15101	100pF 5% 50V 0402
2I30	2238 869 15101	100pF 5% 50V 0402
2I32	4822 124 23002	10µF 16V
2I36	2238 869 15101	100pF 5% 50V 0402
2I38	2238 869 15101	100pF 5% 50V 0402
2I46	2020 552 96618	1nF 10% 50V 0402
2I47	2020 552 96618	1nF 10% 50V 0402
2I49	2238 586 59812	100nF 20% 50V 0603
2I50	2238 586 59812	100nF 20% 50V 0603
2I57	2238 869 15101	100pF 5% 50V 0402
2I58	2238 869 15101	100pF 5% 50V 0402
2I64	2238 869 15101	100pF 5% 50V 0402
2I65	2238 869 15101	100pF 5% 50V 0402
2I69	2238 869 75829	82pF 5% 50V 0402
2I69	4822 126 14324	33pF 5% 50V 0402
2I70	2238 869 75829	82pF 5% 50V 0402
2I70	4822 126 14324	33pF 5% 50V 0402
2I71	2022 552 05679	1µF 10% 16V 0805
2I72	2022 552 05679	1µF 10% 16V 0805
2I73	2022 552 05679	1µF 10% 16V 0805
2I75	2022 552 05679	1µF 10% 16V 0805
2I76	2022 552 05679	1µF 10% 16V 0805
2I77	2022 552 05679	1µF 10% 16V 0805
2I78	2022 552 05679	1µF 10% 16V 0805
2I79	5322 124 41945	22µF 20% 35V
2I80	2022 552 05679	1µF 10% 16V 0805
2I81	2022 552 05679	1µF 10% 16V 0805
2I82	2022 552 05679	1µF 10% 16V 0805
2I84	2022 552 05679	1µF 10% 16V 0805
2I85	2022 552 05679	1µF 10% 16V 0805
2I86	2238 869 75829	82pF 5% 50V 0402
2I86	4822 126 14324	33pF 5% 50V 0402
2I87	2238 869 15101	100pF 5% 50V 0402
2I88	2238 869 15101	100pF 5% 50V 0402
2I89	2022 552 05679	1µF 10% 16V 0805
2I90	2022 552 05679	1µF 10% 16V 0805
2I91	2238 586 59812	100nF 20% 50V 0603
2I92	2022 552 05679	1µF 10% 16V 0805
2I93	2238 586 59812	100nF 20% 50V 0603
2I94	2238 586 59812	100nF 20% 50V 0603
2I95	2238 586 59812	100nF 20% 50V 0603
2I96	2022 552 05679	1µF 10% 16V 0805
2I97	2238 586 59812	100nF 20% 50V 0603
2I98	2238 586 59812	100nF 20% 50V 0603
2I99	2022 552 05679	1µF 10% 16V 0805

2I99	4822 124 23002	10µF 16V
2IA0	2022 552 05679	1µF 10% 16V 0805
2IA0	4822 124 23002	10µF 16V
2IA1	2022 552 05679	1µF 10% 16V 0805
2IA1	4822 124 23002	10µF 16V
2IA2	2022 552 05679	1µF 10% 16V 0805
2IA2	4822 124 23002	10µF 16V
2IA3	2020 552 96618	1nF 10% 50V 0402
2IA4	2022 552 05679	1µF 10% 16V 0805
2IA4	4822 126 14585	100nF 10% 0805 50V
2IA5	2020 021 91557	100µF 20% 16V
2IA9	2020 021 91557	100µF 20% 16V
2IB3	2238 586 59812	100nF 20% 50V 0603
2IB5	2022 552 05679	1µF 10% 16V 0805
2IB8	2238 586 59812	100nF 20% 50V 0603
2IB9	2238 586 59812	100nF 20% 50V 0603
2IC0	4822 124 23002	10µF 16V
2IC1	4822 124 23002	10µF 16V
2IC3	2238 586 59812	100nF 20% 50V 0603
2IC5	2238 586 59812	100nF 20% 50V 0603
2IC6	3198 034 04790	27pF 1% 50V 0402
2IC7	3198 034 04790	27pF 1% 50V 0402
2IC8	2022 552 05679	1µF 10% 16V 0805
2IC9	3198 035 02210	220pF 5% 50V 0402
2IC9	4822 126 13883	220pF 5% 50V
2IE1	2238 586 59812	100nF 20% 50V 0603
2IE2	2238 586 59812	100nF 20% 50V 0603
2IE3	2022 552 05679	1µF 10% 16V 0805
2IE4	2238 586 59812	100nF 20% 50V 0603
2IE5	2238 586 59812	100nF 20% 50V 0603
2IE6	2238 586 59812	100nF 20% 50V 0603
2IE7	2022 552 05679	1µF 10% 16V 0805
2IE8	2022 552 05679	1µF 10% 16V 0805
2IE9	2238 586 59812	100nF 20% 50V 0603
2IF1	2238 586 59812	100nF 20% 50V 0603
2IF2	2238 586 59812	100nF 20% 50V 0603
2IF3	2238 586 59812	100nF 20% 50V 0603
2IF4	4822 124 80151	47µF 16V
2IF5	2238 586 59812	100nF 20% 50V 0603
2IF8	2022 552 05679	1µF 10% 16V 0805
2IF8	4822 124 11946	22µF 20% 16V
2IF9	2022 552 05679	1µF 10% 16V 0805
2IF9	4822 124 11946	22µF 20% 16V
2IG1	2238 586 59812	100nF 20% 50V 0603
2IG2	5322 124 41945	22µF 20% 35V
2IG3	2238 586 59812	100nF 20% 50V 0603
2IG4	2238 586 59812	100nF 20% 50V 0603
2IG5	2238 586 59812	100nF 20% 50V 0603
2IG6	2238 586 59812	100nF 20% 50V 0603
2IG7	2238 586 59812	100nF 20% 50V 0603
2IG8	2238 586 59812	100nF 20% 50V 0603
2IG9	2238 586 59812	100nF 20% 50V 0603
2IH1	2238 586 59812	100nF 20% 50V 0603
2IH2	2238 586 59812	100nF 20% 50V 0603
2IH3	2020 552 96618	1nF 10% 50V 0402
2IH4	2022 552 05679	1µF 10% 16V 0805
2IH5	2238 586 59812	100nF 20% 50V 0603
2IH6	2022 552 05679	1µF 10% 16V 0805
2IH6	4822 124 11946	22µF 20% 16V
2IH7	2022 552 05679	1µF 10% 16V 0805
2IH7	4822 124 11946	22µF 20% 16V
2IH8	2022 552 05679	1µF 10% 16V 0805
2IH8	4822 124 11946	22µF 20% 16V
2IH9	2022 552 05679	1µF 10% 16V 0805
2IH9	4822 124 11946	22µF 20% 16V
2IJ4	2238 586 59812	100nF 20% 50V 0603
2IJ8	2022 552 05679	1µF 10% 16V 0805
2IJ9	2022 552 05679	1µF 10% 16V 0805
2IK1	2238 780 15654	220nF 10% 16V 0805
2IK5	2238 586 59812	100nF 20% 50V 0603
2IK6	2238 586 59812	100nF 20% 50V 0603
2IK7	2238 586 59812	100nF 20% 50V 0603
2IL0	2238 869 15109	10pF 5% 50V 0402
2IN8	2238 586 59812	100nF 20% 50V 0603
2IN9	2238 586 59812	100nF 20% 50V 0603
2IR7	4822 124 12095	100µF 20% 16V
2IS6	4822 124 12095	100µF 20% 16V
2L00	4822 124 23237	22µF 6.3V
2L01	2238 586 59812	100nF 20% 50V 0603
2L02	2238 586 59812	100nF 20% 50V 0603
2L03	2238 586 59812	100nF 20% 50V 0603
2L04	2238 586 59812	100nF 20% 50V 0603
2L05	2238 586 59812	100nF 20% 50V 0603
2L06	2238 586 59812	100nF 20% 50V 0603
2L07	2238 586 59812	100nF 20% 50V 0603
2L08	2238 586 59812	100nF 20% 50V 0603
2L09	2238 586 59812	100nF 20% 50V 0603
2L10	2238 586 59812	100nF 20% 50V 0603
2L11	2238 586 59812	100nF 20% 50V 0603
2L12	2238 586 59812	100nF 20% 50V 0603
2L13	2238 586 59812	100nF 20% 50V 0603
2L14	2238 586 59812	100nF 20% 50V 0603
2L15	2238 586 59812	100nF 20% 50V 0603
2L16	2238 586 59812	100nF 20% 50V 0603
2L17	2238 586 59812	100nF 20% 50V 0603
2L19	4822 124 23237	22µF 6.3V
2L20	2238 586 59812	100nF 20% 50V 0603
2L21	2238 586 59812	100nF 20% 50V 0603
2L25	2238 586 59812	100nF 20% 50V 0603
2L26	3198 017 33330	33nF 20% 16V 0603
2L26	4822 126 14549	33nF 16V 0603
2L27	3198 035 14720	4.7nF 5% 25V 0402
2L28	2238 869 75829	82pF 5% 50V 0402
2L28	3198 034 03990	39pF 1% 50V 0402
2L29	3198 034 03990	39pF 1% 50V 0402
2L29	4822 126 14519	22pF 5% 50V 0402
2L30	2238 869 75829	82pF 5% 50V 0402
2L30	3198 034 03990	39pF 1% 50V 0402
2L31	3198 017 34730	47nF 16V 0603
2L32	3198 035 03320	3.3nF 5% 50V 0402
2L33	2238 586 59812	100nF 20% 50V 0603
2L34	2238 586 59812	100nF 20% 50V 0603
2L48	3198 034 01590	15pF 1% 50V 0402
2L50	3198 034 01590	15pF 1% 50V 0402
2L51	4822 124 23237	22µF 6.3V
2L52	3198 017 34730	47nF 16V 0603
2L54	3198 017 34730	47nF 16V 0603
2L56	2020 552 96618	1nF 10% 50V 0402
2L57	3198 017 34730	47nF 16V 0603
2L58	4822 124 23237	22µF 6.3V
2L60	2238 869 15101	100pF 5% 50V 0402
2L60	3198 034 04790	27pF 1% 50V 0402
2P00	2238 586 59812	100nF 20% 50V 0603
2P01	2020 004 90297	100µF 20% 16V
2P02	2238 586 59812	100nF 20% 50V 0603
2P03	2020 552 96793	4.7nF 10% 50V 0402
2P03	3198 035 14720	4.7nF 5% 25V 0402
2P04	2020 552 96793	4.7nF 10% 50V 0402
2P04	3198 035 14720	4.7nF 5% 25V 0402
2P06	2238 869 15221	220pF 1% 50V 0402
2P07	4822 126 14524	68pF 5% 50V 0402
2P08	3198 034 02780	27pF 1% 50V 0402
2P09	2022 552 05679	1µF 10% 16V 0805
2P10	2238 586 59812	100nF 20% 50V 0603
2P11	2238 586 59812	100nF 20% 50V 0603
2P12	2238 586 59812	100nF 20% 50V 0603
2P13	2238 586 59812	100nF 20% 50V 0603
2P14	2238 586 59812	100nF 20% 50V 0603
2P15	2238 586 59812	100nF 20% 50V 0603
2P16	2238 586 59812	100nF 20% 50V 0603
2P17	4822 126 14583	470nF 10% 16V 0805
2P18	3198 034 05680	5.6pF 1% 50V 0402
2P19	2238 586 59812	100nF 20% 50V 0603
2P20	2022 552 05679	1µF 10% 16V 0805
2P21	2022 552 05679	1µF 10% 16V 0805
2P23	2238 586 59812	100nF 20% 50V 0603
2P24	2238 586 59812	100nF 20% 50V 0603
2P25	3198 032 55130	10µF 20% 20V
2P26	2238 787 15641	22nF 5% 16V 0402
2P27	2022 552 05679	1µF 10% 16V 0805
2P28	2238 586 59812	100nF 20% 50V 0603
2P29	2022 552 05679	1µF 10% 16V 0805
2P29	3198 017 41050	1µF 10V 0603
2P30	2020 552 96793	4.7nF 10% 50V 0402
2P30	3198 035 14720	4.7nF 5% 25V 0402
2P31	2238 586 59812	100nF 20% 50V 0603
2P32	2238 586 59812	100nF 20% 50V 0603
2P33	2238 586 59812	100nF 20% 50V 0603
2P34	2238 586 59812	100nF 20% 50V 0603
2P35	2238 586 59812	100nF 20% 50V 0603
2P36	3198 035 03320	3.3nF 5% 50V 0402
2P37	3198 034 01590	15pF 1% 50V 0402
2P38	3198 034 01280	1.2pF 1% 50V 0402
2P43	3198 034 01290	12pF 1% 50V 0402
2P44	3198 034 01280	1.2pF 1% 50V 0402
2P45	2238 586 59812	100nF 20% 50V 0603
2P46	2238 586 59812	100nF 20% 50V 0603
2P47	2238 586 59812	100nF 20% 50V 0603
2P57	2022 552 05679	1µF 10% 16V 0805
2P57	3198 017 34730	47nF 16V 0603
2P58	2022 552 05679	1µF 10% 16V 0805
2P58	3198 017 34730	47nF 16V 0603
2P60	2022 552 05679	1µF 10% 16V 0805
2P65	2020 004 90283	10µF 20% 10V 1206
2P65	2020 004 90297	100µF 20% 16V
2P66	2238 586 59812	100nF 20% 50V 0603
2P70	2238 586 59812	100nF 20% 50V 0603
2P71	2020 004 90283	10µF 20% 10V 1206
2P72	2022 552 05679	1µF 10% 16V 0805
2P73	2022 552 05679	1µF 10% 16V 0805
2P74	2238 586 59812	100nF 20% 50V 0603
2P75	2022 552 05679	1µF 10% 16V 0805
2P78	2238 586 59812	100nF 20% 50V 0603
2P79	2022 552 05679	1µF 10% 16V 0805
2P80	4822 124 12095	100µF 20% 16V
2P81	2238 586 59812	100nF 20% 50V 0603
2P90	4822 124 12095	100µF 20% 16V
2P98	4822 124 12095	100µF 20% 16V
2P99	4822 124 12095	100µF 20% 16V
2PA0	2022 552 05679	1µF 10% 16V 0805
2PA1	3198 034 01510	150pF 1% 50V 0402
2PA2	2238 586 59812	100nF 20% 50V 0603
2PA3	3198 034 01510	150pF 1% 50V 0402
2PA4	2238 586 59812	100nF 20% 50V 0603
2PA5	3198 034 01510	150pF 1% 50V 0402
2PA6	2238 586 59812	100nF 20% 50V 0603
2PA7	2238 586 59812	100nF 20% 50V 0603
2PA8	2238 586 59812	100nF 20% 50V 0603
2PA9	2020 004 90283	10µF 20% 10V 1206
2PB0	2022 552 05679	1µF 10% 16V 0805
2PB1	3198 034 01510	150pF 1% 50V 0402
2PB2	2238 586 59812	100nF 20% 50V 0603
2PB3	2238 586 59812	100nF 20% 50V 0603
2PB4	3198 034 01510	150pF 1% 50V 0402
2PB6	2238 586 59812	100nF 20% 50V 0603
2PB7	2238 586 59812	100nF 20% 50V 0603
2PB8	4822 124 23002	10µF 16V
2PB9	2238 586 59812	100nF 20% 50V 0603
2PC0	4822 124 23002	10µF 16V
2PC1	2238 586 59812	100nF 20% 50V 0603
2PC2	2238 586 59812	100nF 20% 50V 0603
2PC4	2238 586 59812	100nF 20% 50V 0603
2PC5	2238 586 59812	100nF 20% 50V 0603
2PC7	2238 586 59812	100nF 20% 50V 0603
2PC8	2238 586 59812	100nF 20% 50V 0603
2PC9	2238 586 59812	100nF 20% 50V 0603
2PD0	2020 004 90283	10µF 20% 10V 1206
2PD1	2238 586 59812	100nF 20% 50V 0603
2PD3	2238 586 59812	100nF 20% 50V 0603
2PD4	2238 586 59812	100nF 20% 50V 0603
2PD5	4822 124 23002	10µF 16V
2PD6	4822 124 23002	10µF 16V
2PD7	2238 586 59812	100nF 20% 50V 0603
2PD9	2238 586 59812	100nF 20% 50V 0603
2PE4	2238 586 59812	100nF 20% 50V 0603
2PE5	2238 586 59812	100nF 20% 50V 0603
2PE6	2238 586 59812	100nF 20% 50V 0603
2PE7	2022 552 05679	1µF 10% 16V 0805
2PE7	2238 586 59812	100nF 20% 50V 0603
2PE8	2022 552 05679	1µF 10% 16V 0805
2PE8	2238 586 59812	100nF 20% 50V 0603
2PE9	2022 552 05679	1µF 10% 16V 0805
2PE9	4822 126 14585	100nF 10% 0805 50V
2PF1	4822 124 23002	10µF 16V
2PF2	2238 586 59812	100nF 20% 50V 0603
2PF3	3198 034 01510	150pF 1% 50V 0402
2PF7	2020 004 90283	10µF 20% 10V 1206
2PF8	4822 124 23002	10µF 16V
2PF9	4822 124 23002	10µF 16V
2PG0	2022 552 05679	1µF 10% 16V 0805
2PG1	2020 552 96448	1µF 10% 16V 0805
2PG6	2020 004 90283	10µF 20% 10V 1206
2T01	3198 032 28210	220µF 20% 6.3V
2T02	2238 586 15641	22nF 10% 50V 0603
2T03	3198 032 28210	220µF 20% 6.3V
2T04	2238 586 15641	22nF 10% 50V 0603
2T05	3198 032 28210	220µF 20% 6.3V
2T06	2020 552 96628	10nF 10% 16V 0402
2T09	3198 017 34730	47nF 16V 0603
2T10	3198 017 34730	47nF 16V 0603
2T12	2238 586 59812	100nF 20% 50V 0603
2T13	2020 552 96628	10nF 10% 16V 0402
2T13	5322 126 11583	10nF 10% 50V 0603
2T14	5322 126 11583	10nF 10% 50V 0603
2T15	2022 552 05679	1µF 10% 16V 0805
2T16	2022 552 05679	1µF 10% 16V 0805
2T19	3198 032 28210	220µF 20% 6.3V
2T20	3198 032 28210	220µF 20% 6.3V
2T21	3198 032 28210	220µF 20% 6.3V
2T30	2022 552 05635	22µF 10% 16V
2T31	2022 552 05635	22µF 10% 16V
2T32	2238 586 59812	100nF 20% 50V 0603
2T33	2238 586 59812	100nF 20% 50V 0603
2T34	2020 552 96618	1nF 10% 50V 0402
2T34	2020 552 96621	1.5nF 10% 50V 0402
2T35	2238 586 59812	100nF 20% 50V 0603
2T36	2022 552 05679	1µF 10% 16V 0805
2T37	2020 552 96628	10nF 10% 16V 0402
2T38	2238 586 59812	100nF 20% 50V 0603
2T40	2238 586 59812	100nF 20% 50V 0603
2T41	5322 126 11578	1nF 10% 50V 0603
2T42	2238 787 15641	22nF 5% 16V 0402
2T42	2238 916 15641	22nF 10% 25V 0603
2T43	2022 552 05635	22µF 10% 16V
2T44	2020 552 96628	10nF 10% 16V 0402
2T45	2020 552 96628	10nF 10% 16V 0402
2T46	5322 126 11578	1nF 10% 50V 0603
2T47	3198 035 04710	470pF 50V 0402
2T48	2238 586 59812	100nF 20% 50V 0603
2T49	2020 552 96618	1nF 10% 50V 0402
2T49	2020 552 96621	1.5nF 10% 50V 0402
2T50	2020 552 96628	10nF 10% 16V 0402

2T51	2022 552 05679	1µF 10% 16V 0805
2T52	2022 552 05679	1µF 10% 16V 0805
2T53	3198 035 03320	3.3nF 5% 50V 0402
2T54	2238 586 59812	100nF 20% 50V 0603
2U03	2022 552 05679	1µF 10% 16V 0805
2U04	4822 126 14583	470nF 10% 16V 0805
2U05	2020 552 96618	1nF 10% 50V 0402
2U06	2022 552 05635	22µF 10% 16V
2U07	2238 869 75829	82pF 5% 50V 0402
2U08	2022 552 05635	22µF 10% 16V
2U09	2020 552 96618	1nF 10% 50V 0402
2U10	2022 552 05635	22µF 10% 16V
2U11	2020 552 96618	1nF 10% 50V 0402
2U12	2020 552 96628	10nF 10% 16V 0402
2U13	2238 780 15654	220nF 10% 16V 0805
2U14	4822 126 14583	470nF 10% 16V 0805
2U15	4822 124 12095	100µF 20% 16V
2U16	2020 552 96793	4.7nF 10% 50V 0402
2U16	3198 035 14720	4.7nF 5% 25V 0402
2U17	4822 126 14583	470nF 10% 16V 0805
2U18	3198 034 01210	120pF 1% 50V 0402
2U19	2238 586 59812	100nF 20% 50V 0603
2U20	2022 552 05679	1µF 10% 16V 0805
2U21	4822 126 14583	470nF 10% 16V 0805
2U22	2022 552 05679	1µF 10% 16V 0805
2U23	4822 124 12095	100µF 20% 16V
2U24	2020 552 96618	1nF 10% 50V 0402
2U25	2238 586 59812	100nF 20% 50V 0603
2U26	2238 586 59812	100nF 20% 50V 0603
2U27	3198 035 26820	6.8nF 10% 16V 0402
2U28	3198 035 26820	6.8nF 10% 16V 0402
2U30	3198 034 01210	120pF 1% 50V 0402
2U31	4822 124 12095	100µF 20% 16V
2U32	3198 035 03320	3.3nF 5% 50V 0402
2U33	2022 552 05679	1µF 10% 16V 0805
2U34	2238 787 15641	22nF 5% 16V 0402
2U35	2022 552 05679	1µF 10% 16V 0805
2U36	2238 586 59812	100nF 20% 50V 0603
2U37	2020 552 96623	2.2nF 10% 50V 0402
2U39	2238 586 59812	100nF 20% 50V 0603
2U40	2020 552 96623	2.2nF 10% 50V 0402
2U40	4822 126 14238	2.2nF 50V 0603
2U41	3198 035 26820	6.8nF 10% 16V 0402
2U42	3198 017 34730	47nF 16V 0603
2V11	3198 035 04710	470pF 50V 0402
2V12	3198 035 04710	470pF 50V 0402
2Y00	2238 869 15101	100pF 5% 50V 0402
2Y01	2238 869 15101	100pF 5% 50V 0402
2Y02	2238 869 15101	100pF 5% 50V 0402
2Y03	2238 869 15101	100pF 5% 50V 0402
2Y06	2020 552 96618	1nF 10% 50V 0402
2Y06	2238 869 15101	100pF 5% 50V 0402
2Y07	2238 869 15101	100pF 5% 50V 0402
2Y08	2020 552 96618	1nF 10% 50V 0402
2Y08	2238 869 15101	100pF 5% 50V 0402
2Y09	2238 869 15101	100pF 5% 50V 0402
2Y10	2238 869 15101	100pF 5% 50V 0402
2Y11	2020 552 96618	1nF 10% 50V 0402
2Y11	2238 869 15101	100pF 5% 50V 0402
2Y12	2238 869 15101	100pF 5% 50V 0402
2Y13	2238 869 15101	100pF 5% 50V 0402
2Y14	2238 869 15101	100pF 5% 50V 0402
2Y15	2238 869 15101	100pF 5% 50V 0402
2Y16	2238 869 15101	100pF 5% 50V 0402
2Y17	2238 869 15101	100pF 5% 50V 0402
2Y18	2238 869 15101	100pF 5% 50V 0402
2Y19	2238 869 15101	100pF 5% 50V 0402
2Y20	2238 869 15101	100pF 5% 50V 0402
2Y21	2238 869 15101	100pF 5% 50V 0402
2Y22	2020 552 96618	1nF 10% 50V 0402
2Y22	2238 869 15101	100pF 5% 50V 0402
2Y23	2238 869 15101	100pF 5% 50V 0402
2Y25	2238 869 15101	100pF 5% 50V 0402
2Y26	2238 869 15101	100pF 5% 50V 0402
2Y27	2020 552 96618	1nF 10% 50V 0402
2Y28	2020 552 96618	1nF 10% 50V 0402
2Y29	2020 552 96618	1nF 10% 50V 0402
2Y30	4822 124 12095	100µF 20% 16V
2Y31	4822 124 12095	100µF 20% 16V
2Y32	2020 552 96618	1nF 10% 50V 0402
2Y33	2020 552 96618	1nF 10% 50V 0402
2Y34	2238 869 15101	100pF 5% 50V 0402
2Y36	2238 869 15101	100pF 5% 50V 0402
2Y37	2238 869 15101	100pF 5% 50V 0402
2Y38	2238 869 15101	100pF 5% 50V 0402
2Y39	2238 869 15101	100pF 5% 50V 0402
2Y40	2238 869 15101	100pF 5% 50V 0402
2Y41	2238 869 15101	100pF 5% 50V 0402
2Y42	2238 869 15101	100pF 5% 50V 0402
2Y43	2238 869 15101	100pF 5% 50V 0402
2Y44	2238 869 15101	100pF 5% 50V 0402
2Y45	2238 869 15101	100pF 5% 50V 0402
2Y49	2238 869 15101	100pF 5% 50V 0402
2Y49	2238 869 15109	10pF 5% 50V 0402
2Y50	2238 869 15101	100pF 5% 50V 0402
2Y50	2238 869 15109	10pF 5% 50V 0402
2Y51	2238 869 15101	100pF 5% 50V 0402
2Y52	3198 035 71040	100nF 10% 16V 0402
2Y53	2238 869 15101	100pF 5% 50V 0402
2Z44	4822 126 14519	22pF 5% 50V 0402
2Z45	4822 126 14519	22pF 5% 50V 0402
2Z46	4822 126 14519	22pF 5% 50V 0402
2Z47	4822 126 14519	22pF 5% 50V 0402
2Z48	4822 126 14519	22pF 5% 50V 0402
2Z49	4822 126 14519	22pF 5% 50V 0402
2Z50	4822 126 14519	22pF 5% 50V 0402
2Z51	4822 126 14519	22pF 5% 50V 0402
2Z52	4822 126 14519	22pF 5% 50V 0402
2Z53	4822 126 14519	22pF 5% 50V 0402
2Z54	2022 552 05679	1µF 10% 16V 0805
2Z55	2238 586 59812	100nF 20% 50V 0603
2Z56	2020 552 96618	1nF 10% 50V 0402
2Z59	2238 869 15101	100pF 5% 50V 0402
2Z63	2238 586 59812	100nF 20% 50V 0603
2Z64	2238 586 59812	100nF 20% 50V 0603

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3001	3198 031 04720	4.7kΩ 5% 0402
3002	3198 031 04720	4.7kΩ 5% 0402
3003	4822 117 13525	24kΩ 1% 0.62W 0603
3005	4822 117 13606	10kΩ 5% 0.01W 0402
3006	4822 117 13543	470Ω 5% 0402
3007	2350 033 10471	4 x 470Ω 5%
3008	2350 033 10101	4 x 100Ω 5%
3008	2350 033 11221	4 x 220Ω 5%
3009	3198 031 01810	180Ω 5% 0402
3009	4822 117 13606	10kΩ 5% 0.01W 0402
3010	4822 117 13606	10kΩ 5% 0.01W 0402
3011	3198 031 04720	4.7kΩ 5% 0402
3012	2350 033 10101	4 x 100Ω 5%
3013	4822 117 13606	10kΩ 5% 0.01W 0402
3014	3198 031 06820	6.8kΩ 5% 0.01W 0402
3015	3198 031 04740	470kΩ 5% 0402
3016	2322 706 71502	1.5kΩ 1% 0402
3017	3198 031 04720	4.7kΩ 5% 0402
3018	4822 117 13606	10kΩ 5% 0.01W 0402
3019	3198 031 04720	4.7kΩ 5% 0402
3020	4822 117 13606	10kΩ 5% 0.01W 0402
3021	4822 117 13606	10kΩ 5% 0.01W 0402
3022	3198 031 01220	1.2kΩ 5% 0.01W 0402
3022	3198 031 01230	12kΩ 5% 0402
3023	4822 117 13601	22kΩ 5% 0402
3023	4822 117 13602	2.2kΩ 5% 0.01W 0402
3023	4822 117 13605	Jumper 0402
3024	3198 031 02730	27kΩ 5% 0402
3025	4822 117 13596	220Ω 5% 0.01W 0402
3026	3198 031 04720	4.7kΩ 5% 0402
3027	3198 031 04730	47Ω 5% 0402
3028	3198 031 04720	4.7kΩ 5% 0402
3029	2350 033 10101	4 x 100Ω 5%
3030	3198 031 04720	4.7kΩ 5% 0402
3031	2350 033 10101	4 x 100Ω 5%
3032	4822 117 13606	10kΩ 5% 0.01W 0402
3033	4822 117 11297	100kΩ 5% 0.1W
3033	4822 117 13606	10kΩ 5% 0.01W 0402
3034	2350 033 10101	4 x 100Ω 5%
3035	2350 033 10101	4 x 100Ω 5%
3036	3198 031 04720	4.7kΩ 5% 0402
3036	3198 031 04730	47Ω 5% 0402
3037	4822 117 13548	1kΩ 5% 0402
3038	4822 117 13606	10kΩ 5% 0.01W 0402
3039	3198 031 01810	180Ω 5% 0402
3046	2350 033 10101	4 x 100Ω 5%
3047	4822 051 30008	Jumper 0603
3048	2350 033 10101	4 x 100Ω 5%
3049	2350 033 10101	4 x 100Ω 5%
3050	2350 033 10101	4 x 100Ω 5%
3051	2350 033 10101	4 x 100Ω 5%
3052	2350 033 10101	4 x 100Ω 5%
3053	4822 117 13606	10kΩ 5% 0.01W 0402
3054	2350 033 10101	4 x 100Ω 5%
3055	2350 033 10101	4 x 100Ω 5%
3056	2350 033 10101	4 x 100Ω 5%
3057	2350 033 10101	4 x 100Ω 5%
3059	2322 704 66201	620Ω 1% 0603
3061	2350 033 10101	4 x 100Ω 5%
3062	4822 117 13606	10kΩ 5% 0.01W 0402
3064	2350 033 10101	4 x 100Ω 5%
3065	3198 031 04720	4.7kΩ 5% 0402
3066	3198 031 04730	47Ω 5% 0402
3067	3198 031 04740	470kΩ 5% 0402
3069	3198 031 01820	1.8kΩ 5% 0.01W 0402
3070	3198 031 02730	27kΩ 5% 0402
3072	2350 033 10101	4 x 100Ω 5%
3073	2350 033 10471	4 x 470Ω 5%
3074	2350 033 10471	4 x 470Ω 5%
3076	2350 033 10471	4 x 470Ω 5%
3077	3198 031 04720	4.7kΩ 5% 0402
3078	2350 033 10471	4 x 470Ω 5%
3079	3198 031 01820	1.8kΩ 5% 0.01W 0402
3080	4822 117 13606	10kΩ 5% 0.01W 0402
3081	4822 117 13543	470Ω 5% 0402
3082	2350 033 10101	4 x 100Ω 5%
3083	2350 033 10101	4 x 100Ω 5%
3084	4822 117 13606	10kΩ 5% 0.01W 0402
3085	2350 033 10101	4 x 100Ω 5%
3086	2350 033 10101	4 x 100Ω 5%
3087	4822 117 13545	100Ω 1% 0402
3088	3198 031 01820	1.8kΩ 5% 0.01W 0402
3089	4822 117 13545	100Ω 1% 0402
3090	2350 033 10471	4 x 470Ω 5%
3091	4822 051 30008	Jumper 0603
3092	3198 031 01820	1.8kΩ 5% 0.01W 0402
3093	4822 117 13606	10kΩ 5% 0.01W 0402
3097	4822 117 13543	470Ω 5% 0402
3099	2350 033 10471	4 x 470Ω 5%
3100	4822 117 13596	220Ω 5% 0.01W 0402
3101	4822 117 13596	220Ω 5% 0.01W 0402
3102	2350 033 10101	4 x 100Ω 5%
3103	4822 117 13543	470Ω 5% 0402
3304	2322 750 63908	3.9Ω 5% Fuse 1206
3370	4822 117 13545	100Ω 1% 0402
3371	4822 117 13546	47Ω 5% 0402
3372	4822 117 13543	470Ω 5% 0402
3376	4822 117 13545	100Ω 1% 0402
3377	4822 117 13545	100Ω 1% 0402
3378	3198 031 01530	15kΩ 5% 0.01W 0402
3380	4822 117 13545	100Ω 1% 0402
3382	4822 117 13543	470Ω 5% 0402
3385	4822 117 13543	470Ω 5% 0402
3393	4822 117 11297	100kΩ 5% 0.1W
3400▲	4822 117 11152	4.7Ω 5%
3402▲	2322 750 63908	3.9Ω 5% Fuse 1206
3404	3198 031 05610	560Ω 5% 0.01W 0402
3405	4822 117 13548	1kΩ 5% 0402
3406	2322 705 70279	27Ω 5% 0402
3408	4822 117 13545	100Ω 1% 0402
3411	3198 031 02720	2.7kΩ 5% 0.01W 0402
3412▲	4822 117 11152	4.7Ω 5%
3413	3198 031 02710	270Ω 5% 0.1W 0402
3414	3198 031 04720	4.7kΩ 5% 0402
3415	4822 117 13602	2.2kΩ 5% 0.01W 0402
3418	3198 031 03910	390Ω 1% 0402
3419	3198 031 03390	33Ω 1% 0402
3422	4822 117 13548	1kΩ 5% 0402
3435	3198 031 04720	4.7kΩ 5% 0402
3436	3198 031 01810	180Ω 5% 0402
3437	4822 117 13543	470Ω 5% 0402
3439	4822 117 13597	330Ω 5% 0402 0.01W
3441	3198 031 05620	5.6kΩ 5% 0.01W 0402
3445	4822 117 13543	470Ω 5% 0402
3463	3198 031 04720	4.7kΩ 5% 0402
3473	4822 117 13548	1kΩ 5% 0402
3474	3198 031 01090	10Ω 5% 0.01W 0402
3475▲	5322 117 11726	10Ω 5%
3476	3198 031 05610	560Ω 5% 0.01W 0402
3700	3198 031 02290	22Ω 5% 0.1W 0402
3701	4822 117 13548	1kΩ 5% 0402
3702	3198 031 01090	10Ω 5% 0.01W 0402
3703	3198 031 04720	4.7kΩ 5% 0402
3706	4822 117 13545	100Ω 1% 0402
3707	4822 117 13545	100Ω 1% 0402
3709	4822 117 13545	100Ω 1% 0402
3710	4822 117 13545	100Ω 1% 0402
3712	3198 031 04730	47Ω 5% 0402
3713	3198 031 01810	180Ω 5% 0402
3714	3198 031 01810	180Ω 5% 0402
3715	3198 031 01810	180Ω 5% 0402
3716	4822 117 11297	100kΩ 5% 0.1W
3717	4822 117 11297	100kΩ 5% 0.1W
3718	4822 117 11297	100kΩ 5% 0.1W
3719	3198 031 03320	3.3kΩ 5% 0402
3720	4822 117 13606	10kΩ 5% 0.01W 0402
3721	4822 117 13545	100Ω 1% 0402
3722	4822 117 13548	1kΩ 5% 0402
3724	4822 117 13545	100Ω 1% 0402
3725	3198 031 03320	3.3kΩ 5% 0402
3726	3198 031 01220	1.2kΩ 5% 0.01W 0402
3727	3198 031 01510	150Ω 5% 0.01W 0402
3728	3198 031 01510	150Ω 5% 0.01W 0402
3729	4822 117 13605	Jumper 0402
3730	3198 031 05610	560Ω 5% 0.01W 0402
3730	3198 031 06810	680Ω 5% 0.01W 0402
3732	3198 031 04730	47Ω 5% 0402
3733	4822 117 13548	1kΩ 5% 0402
3734	4822 117 13545	100Ω 1% 0402
3736	4822 117 13545	100Ω 1% 0402
3737	4822 117 13548	1kΩ 5% 0402
3738	4822 117 13548	1kΩ 5% 0402
3739	3198 031 01230	12kΩ 5% 0402

3740	3198 031 04720	4.7kΩ 5% 0402
3742	4822 117 13601	22kΩ 5% 0402
3743	4822 117 13606	10kΩ 5% 0.01W 0402
3744	4822 117 13602	2.2kΩ 5% 0.01W 0402
3745	4822 117 13548	1kΩ 5% 0402
3746	3198 031 03920	3.9kΩ 5% 0402
3747	3198 031 04730	47Ω 5% 0402
3748	2322 705 70124	120kΩ 5% 0402
3749	3198 031 03920	3.9kΩ 5% 0402
3750	3198 031 03920	3.9kΩ 5% 0402
3751	3198 031 03320	3.3kΩ 5% 0402
3752	4822 117 13605	Jumper 0402
3753	4822 117 13605	Jumper 0402
3754	4822 117 13545	100Ω 1% 0402
3755	3198 031 04720	4.7kΩ 5% 0402
3756	4822 117 13606	10kΩ 5% 0.01W 0402
3757	3198 031 01510	150Ω 5% 0.01W 0402
3758	3198 031 04720	4.7kΩ 5% 0402
3759	4822 117 13596	220Ω 5% 0.01W 0402
3762	3198 031 03390	33Ω 1% 0402
3762	3198 031 06890	68Ω 5% 0402
3763	3198 031 03390	33Ω 1% 0402
3763	3198 031 06890	68Ω 5% 0402
3764	3198 031 03390	33Ω 1% 0402
3764	3198 031 06890	68Ω 5% 0402
3766	4822 117 13548	1kΩ 5% 0402
3767	3198 031 03390	33Ω 1% 0402
3767	3198 031 06890	68Ω 5% 0402
3768	3198 031 03390	33Ω 1% 0402
3768	3198 031 06890	68Ω 5% 0402
3769	3198 031 03390	33Ω 1% 0402
3769	3198 031 06890	68Ω 5% 0402
3770	3198 031 03390	33Ω 1% 0402
3770	3198 031 06890	68Ω 5% 0402
3771	3198 031 07590	75Ω 5% 0402
3772	3198 031 07590	75Ω 5% 0402
3773	3198 031 07590	75Ω 5% 0402
3774	3198 031 03390	33Ω 1% 0402
3774	3198 031 06890	68Ω 5% 0402
3775	3198 031 03390	33Ω 1% 0402
3775	3198 031 06890	68Ω 5% 0402
3776	3198 031 07590	75Ω 5% 0402
3777	3198 031 03390	33Ω 1% 0402
3777	3198 031 06890	68Ω 5% 0402
3778	3198 031 04720	4.7kΩ 5% 0402
3779	3198 031 03390	33Ω 1% 0402
3779	3198 031 06890	68Ω 5% 0402
3780	3198 031 03390	33Ω 1% 0402
3780	3198 031 06890	68Ω 5% 0402
3781	3198 031 03390	33Ω 1% 0402
3781	3198 031 06890	68Ω 5% 0402
3782	4822 117 13548	1kΩ 5% 0402
3784	3198 031 03390	33Ω 1% 0402
3784	3198 031 06890	68Ω 5% 0402
3792	3198 031 01510	150Ω 5% 0.01W 0402
3793	4822 117 13602	2.2kΩ 5% 0.01W 0402
3794	3198 031 07590	75Ω 5% 0402
3795	3198 031 01510	150Ω 5% 0.01W 0402
3797	3198 031 04720	4.7kΩ 5% 0402
3800	3198 031 07590	75Ω 5% 0402
3801	3198 031 01510	150Ω 5% 0.01W 0402
3802	3198 031 01510	150Ω 5% 0.01W 0402
3803	3198 031 03390	33Ω 1% 0402
3803	3198 031 06890	68Ω 5% 0402
3804	3198 031 03390	33Ω 1% 0402
3804	3198 031 06890	68Ω 5% 0402
3805	4822 117 13545	100Ω 1% 0402
3811	3198 031 07590	75Ω 5% 0402
3812	3198 031 07590	75Ω 5% 0402
3814	3198 031 07590	75Ω 5% 0402
3815	3198 031 07590	75Ω 5% 0402
3817	3198 031 07590	75Ω 5% 0402
3818	3198 031 07590	75Ω 5% 0402
3820	3198 031 04720	4.7kΩ 5% 0402
3821	3198 031 03390	33Ω 1% 0402
3823	3198 031 06890	68Ω 5% 0402
3826	4822 117 13545	100Ω 1% 0402
3827	4822 117 13545	100Ω 1% 0402
3828	4822 117 13605	Jumper 0402
3829	4822 117 13545	100Ω 1% 0402
3830	3198 031 06890	68Ω 5% 0402
3831	3198 031 06890	68Ω 5% 0402
3832	3198 031 06890	68Ω 5% 0402
3833	3198 031 06890	68Ω 5% 0402
3834	3198 031 06890	68Ω 5% 0402
3835	3198 031 06890	68Ω 5% 0402
3836	3198 031 06890	68Ω 5% 0402
3837	3198 031 06890	68Ω 5% 0402
3838	3198 031 06890	68Ω 5% 0402
3839	3198 031 06890	68Ω 5% 0402
3840	3198 031 06890	68Ω 5% 0402
3841	3198 031 06890	68Ω 5% 0402
3842	3198 031 06890	68Ω 5% 0402
3843	3198 031 06890	68Ω 5% 0402
3844	3198 031 06890	68Ω 5% 0402
3845	3198 031 06890	68Ω 5% 0402
3846	3198 031 04720	4.7kΩ 5% 0402
3850	2322 705 70829	82Ω 5% 0402
3850	2322 705 87829	82Ω 5% 0402
3853	3198 031 04730	47Ω 5% 0402
3855	3198 031 04720	4.7kΩ 5% 0402
3856	3198 031 01090	10Ω 5% 0.01W 0402
3857	3198 031 01090	10Ω 5% 0.01W 0402
3858	3198 031 01090	10Ω 5% 0.01W 0402
3859	3198 031 01090	10Ω 5% 0.01W 0402
3860	3198 031 01090	10Ω 5% 0.01W 0402
3861	3198 031 01090	10Ω 5% 0.01W 0402
3864	4822 117 13545	100Ω 1% 0402
3865	4822 117 13545	100Ω 1% 0402
3867	4822 117 13545	100Ω 1% 0402
3868	4822 117 13545	100Ω 1% 0402
3869	4822 117 13545	100Ω 1% 0402
3870	4822 117 13545	100Ω 1% 0402
3871	4822 117 13545	100Ω 1% 0402
3872	4822 117 13545	100Ω 1% 0402
3873	4822 117 13545	100Ω 1% 0402
3875	4822 117 13545	100Ω 1% 0402
3880	3198 031 04730	47Ω 5% 0402
3881	3198 031 04730	47Ω 5% 0402
3882	3198 031 04730	47Ω 5% 0402
3883	3198 031 04730	47Ω 5% 0402
3884	3198 031 04730	47Ω 5% 0402
3885	4822 117 13548	1kΩ 5% 0402
3886	4822 117 13548	1kΩ 5% 0402
3887	4822 117 13548	1kΩ 5% 0402
3888	4822 117 13548	1kΩ 5% 0402
3889	4822 117 13548	1kΩ 5% 0402
3890	4822 117 13548	1kΩ 5% 0402
3891	4822 117 13548	1kΩ 5% 0402
3894	3198 031 01510	150Ω 5% 0.01W 0402
3896	4822 117 13605	Jumper 0402
3900	3198 031 06890	68Ω 5% 0402
3901	3198 031 06890	68Ω 5% 0402
3902	3198 031 06890	68Ω 5% 0402
3903	4822 117 11297	100kΩ 5% 0.1W
3905	3198 031 04720	4.7kΩ 5% 0402
3909	4822 117 13545	100Ω 1% 0402
3911	2350 033 11689	4x 68Ω 5% Netw.
3912	2350 033 11689	4x 68Ω 5% Netw.
3913	2350 033 11229	4x 22Ω 5% Netw.
3914	2350 033 11229	4x 22Ω 5% Netw.
3915	2350 033 11229	4x 22Ω 5% Netw.
3916	2350 033 11229	4x 22Ω 5% Netw.
3917	2350 033 11229	4x 22Ω 5% Netw.
3918	3198 031 06890	68Ω 5% 0402
3919	3198 031 06890	68Ω 5% 0402
3921	3198 031 06890	68Ω 5% 0402
3A00	4822 117 13601	22kΩ 5% 0402
3A01	4822 117 13606	10kΩ 5% 0.01W 0402
3A03▲	4822 117 13568	6.8Ω 5% 1206
3A04	4822 117 13601	22kΩ 5% 0402
3A05	4822 117 13601	22kΩ 5% 0402
3A06	4822 117 11297	100kΩ 5% 0.1W
3A07	4822 117 11297	100kΩ 5% 0.1W
3A09	4822 117 13601	22kΩ 5% 0402
3A11	4822 117 11297	100kΩ 5% 0.1W
3A12	3198 031 04730	47Ω 5% 0402
3A13	3198 031 04730	47Ω 5% 0402
3A14	3198 031 04730	47Ω 5% 0402
3A15	4822 117 11297	100kΩ 5% 0.1W
3A16	4822 117 13545	100Ω 1% 0402
3A17	4822 117 13545	100Ω 1% 0402
3A18	3198 031 06830	68kΩ 5% 0.01W 0402
3A19	4822 117 13545	100Ω 1% 0402
3A20	4822 117 11297	100kΩ 5% 0.1W
3A21	3198 031 02730	27kΩ 5% 0402
3A21	3198 031 06830	68kΩ 5% 0.01W 0402
3A22	4822 117 11297	100kΩ 5% 0.1W
3A23	3198 031 06830	68kΩ 5% 0.01W 0402
3A24	3198 031 06810	680Ω 5% 0.01W 0402
3A24	4822 117 13545	100Ω 1% 0402
3A26	3198 031 06830	68kΩ 5% 0.01W 0402
3A27	3198 031 06820	6.8kΩ 5% 0.01W 0402
3A28	3198 031 06820	6.8kΩ 5% 0.01W 0402
3A40	3198 031 04730	47Ω 5% 0402
3A45	3198 031 04730	47Ω 5% 0402
3A46	3198 031 04720	4.7kΩ 5% 0402
3A47	3198 031 04730	47Ω 5% 0402
3A48	4822 117 11297	100kΩ 5% 0.1W
3A49	3198 031 04730	47Ω 5% 0402
3A51	3198 031 04720	4.7kΩ 5% 0402
3A52	3198 031 03930	39kΩ 5% 0402
3A52	3198 031 05630	56kΩ 5% 0402
3A53	3198 031 03930	39kΩ 5% 0402
3A53	3198 031 05630	56kΩ 5% 0402
3A55	4822 117 13597	330Ω 5% 0402 0.01W
3A60	4822 117 11297	100kΩ 5% 0.1W
3A61	4822 117 13597	330Ω 5% 0402 0.01W
3A62	4822 117 11297	100kΩ 5% 0.1W
3A63	4822 117 13601	22kΩ 5% 0402
3A64	3198 031 04730	47Ω 5% 0402
3A64	4822 117 13597	330Ω 5% 0402 0.01W
3A65	3198 031 01050	1MΩ 5% 0402
3A65	4822 117 11297	100kΩ 5% 0.1W
3A66	4822 117 11297	100kΩ 5% 0.1W
3C00	4822 117 13602	2.2kΩ 5% 0.01W 0402
3C01	3198 031 01090	10Ω 5% 0.01W 0402
3C03	4822 117 13606	10kΩ 5% 0.01W 0402
3C04	4822 117 13606	10kΩ 5% 0.01W 0402
3C05	4822 117 13543	470Ω 5% 0402
3C08	4822 051 30103	10kΩ 5% 0.062W
3C10	4822 117 13545	100Ω 1% 0402
3C11	4822 117 13545	100Ω 1% 0402
3C12	3198 031 06890	68Ω 5% 0402
3E00	4822 117 13606	10kΩ 5% 0.01W 0402
3E01	4822 117 13548	1kΩ 5% 0402
3E02	4822 117 13548	1kΩ 5% 0402
3E03	4822 117 13548	1kΩ 5% 0402
3E04	4822 117 13548	1kΩ 5% 0402
3E05	3198 031 01520	1.2kΩ 5% 0.01W 0402
3E06	4822 117 13545	100Ω 1% 0402
3E07	4822 117 13545	100Ω 1% 0402
3E08	4822 117 13545	100Ω 1% 0402
3E11	4822 117 13543	470Ω 5% 0402
3E12	4822 117 13543	470Ω 5% 0402
3E14	4822 117 13548	1kΩ 5% 0402
3E16	3198 031 02720	2.7kΩ 5% 0.01W 0402
3E18	4822 117 13545	100Ω 1% 0402
3E19	4822 117 13545	100Ω 1% 0402
3E37	4822 117 13545	100Ω 1% 0402
3E50	4822 117 13606	10kΩ 5% 0.01W 0402
3E51	4822 117 13606	10kΩ 5% 0.01W 0402
3E52	4822 117 13606	10kΩ 5% 0.01W 0402
3E53	4822 117 13606	10kΩ 5% 0.01W 0402
3E54	4822 117 13546	47Ω 5% 0402
3E55	4822 117 13606	10kΩ 5% 0.01W 0402
3E56	4822 117 13603	33kΩ 5% 0402
3E57	4822 117 11297	100kΩ 5% 0.1W
3E58	4822 117 13546	47Ω 5% 0402
3E59	4822 117 13606	10kΩ 5% 0.01W 0402
3E61	4822 117 13546	47Ω 5% 0402
3E62	4822 117 13548	1kΩ 5% 0402
3E63	4822 117 13606	10kΩ 5% 0.01W 0402
3E64	4822 117 13606	10kΩ 5% 0.01W 0402
3E69	3198 031 04720	4.7kΩ 5% 0402
3E70	3198 031 04720	4.7kΩ 5% 0402
3E73	4822 117 13606	10kΩ 5% 0.01W 0402
3E74	4822 117 13546	47Ω 5% 0402
3E77	4822 117 13546	47Ω 5% 0402
3E78	4822 117 13546	47Ω 5% 0402
3E79	4822 117 13546	47Ω 5% 0402
3E80	4822 117 13546	47Ω 5% 0402
3E81	4822 117 13546	47Ω 5% 0402
3E82	3198 031 01090	10Ω 5% 0.01W 0402
3E83	3198 031 01090	10Ω 5% 0.01W 0402
3E84	3198 031 01090	10Ω 5% 0.01W 0402
3E85	3198 031 01090	10Ω 5% 0.01W 0402
3E86	3198 031 01090	10Ω 5% 0.01W 0402
3E88	4822 117 13546	47Ω 5% 0402
3E89	4822 117 13546	47Ω 5% 0402
3E90	3198 031 06890	68Ω 5% 0402
3E91	3198 031 03390	33Ω 1% 0402
3I07	4822 117 13606	10kΩ 5% 0.01W 0402
3I08	4822 117 13597	330Ω 5% 0402 0.01W
3I28	4822 117 13545	100Ω 1% 0402
3I29	4822 051 30759	75Ω 5% 0.062W
3I30	4822 051 30759	75Ω 5% 0.062W
3I31	4822 051 30759	75Ω 5% 0.062W
3I32	4822 117 13548	1kΩ 5% 0402
3I33	4822 051 30101	100Ω 5% 0.062W
3I34	4822 117 13606	10kΩ 5% 0.01W 0402
3I35	4822 051 30101	100Ω 5% 0.062W
3I36	4822 117 13601	22kΩ 5% 0402
3I37	4822 117 13601	22kΩ 5% 0402
3I38	4822 117 13601	22kΩ 5% 0402
3I39	3198 031 04720	4.7kΩ 5% 0402
3I40	4822 051 30101	100Ω 5% 0.062W
3I41	4822 117 13548	1kΩ 5% 0402
3I42	4822 117 13548	1kΩ 5% 0402
3I42	4822 117 13602	2.2kΩ 5% 0.01W 0402
3I43	3198 031 04720	4.7kΩ 5% 0402
3I44	4822 117 13606	10kΩ 5% 0.01W 0402
3I45	3198 031 04730	47Ω 5% 0402
3I46	4822 117 13545	100Ω 1% 0402
3I47	4822 117 13602	2.2kΩ 5% 0.01W 0402
3I49	4822 117 13545	100Ω 1% 0402
3I50	4822 051 30271	270Ω 5% 0.062W
3I51	4822 051 30101	100Ω 5% 0.062W
3I51	4822 117 13545	100Ω 1% 0402
3I52	4822 051 30271	270Ω 5% 0.062W
3I53	4822 051 30101	100Ω 5% 0.062W
3I53	4822 117 13545	100Ω 1% 0402

3I54	4822 051 30101	100Ω 5% 0.062W
3I54	4822 117 13545	100Ω 1% 0402
3I55	4822 051 30759	75Ω 5% 0.062W
3I56	4822 051 30101	100Ω 5% 0.062W
3I56	4822 117 13545	100Ω 1% 0402
3I57	4822 051 30759	75Ω 5% 0.062W
3I58	4822 051 30101	100Ω 5% 0.062W
3I58	4822 117 13545	100Ω 1% 0402
3I59	4822 051 30759	75Ω 5% 0.062W
3I60	4822 051 30759	75Ω 5% 0.062W
3I61	4822 051 30101	100Ω 5% 0.062W
3I61	4822 117 13545	100Ω 1% 0402
3I62	4822 051 30101	100Ω 5% 0.062W
3I62	4822 117 13545	100Ω 1% 0402
3I63	4822 051 30392	3.9Ω 5% 0.063W 0603
3I64	3198 031 08220	8.2kΩ 5% 0.5W
3I65	4822 051 30101	100Ω 5% 0.062W
3I65	4822 117 13545	100Ω 1% 0402
3I66	4822 051 30759	75Ω 5% 0.062W
3I67	4822 051 30759	75Ω 5% 0.062W
3I68	4822 051 30101	100Ω 5% 0.062W
3I68	4822 117 13545	100Ω 1% 0402
3I69	4822 051 30271	270Ω 5% 0.062W
3I70	4822 051 30101	100Ω 5% 0.062W
3I70	4822 117 13545	100Ω 1% 0402
3I71	4822 051 30271	270Ω 5% 0.062W
3I72	4822 051 30101	100Ω 5% 0.062W
3I72	4822 117 13545	100Ω 1% 0402
3I75	4822 051 30101	100Ω 5% 0.062W
3I75	4822 117 13545	100Ω 1% 0402
3I76	4822 051 30101	100Ω 5% 0.062W
3I76	4822 117 13545	100Ω 1% 0402
3I77	4822 051 30759	75Ω 5% 0.062W
3I78	4822 051 30759	75Ω 5% 0.062W
3I79	4822 051 30101	100Ω 5% 0.062W
3I79	4822 117 13545	100Ω 1% 0402
3I80	4822 051 30101	100Ω 5% 0.062W
3I80	4822 117 13545	100Ω 1% 0402
3I81	3198 031 08220	8.2kΩ 5% 0.5W
3I82	4822 051 30392	3.9Ω 5% 0.063W 0603
3I83	4822 051 30101	100Ω 5% 0.062W
3I83	4822 117 13545	100Ω 1% 0402
3I84	4822 051 30759	75Ω 5% 0.062W
3I86	4822 051 30759	75Ω 5% 0.062W
3I87	4822 051 30101	100Ω 5% 0.062W
3I87	4822 117 13545	100Ω 1% 0402
3I88	4822 051 30759	75Ω 5% 0.062W
3I89	4822 051 30271	270Ω 5% 0.062W
3I90	4822 051 30101	100Ω 5% 0.062W
3I90	4822 117 13545	100Ω 1% 0402
3I91	4822 051 30271	270Ω 5% 0.062W
3I92	4822 051 30101	100Ω 5% 0.062W
3I92	4822 117 13545	100Ω 1% 0402
3I98	4822 117 11297	100kΩ 5% 0.1W
3I98	4822 117 13605	Jumper 0402
3I99	4822 051 30271	270Ω 5% 0.062W
3IA0	4822 051 30101	100Ω 5% 0.062W
3IA0	4822 117 13545	100Ω 1% 0402
3IA1	4822 117 11297	100kΩ 5% 0.1W
3IA2	4822 051 30101	100Ω 5% 0.062W
3IA2	4822 117 13545	100Ω 1% 0402
3IA3	4822 117 13601	22kΩ 5% 0402
3IA4	4822 117 13548	1kΩ 5% 0402
3IA5	4822 117 13548	1kΩ 5% 0402
3IA6	4822 117 13548	1kΩ 5% 0402
3IA7	4822 117 13548	1kΩ 5% 0402
3IA8	4822 117 13548	1kΩ 5% 0402
3IB2	4822 117 13545	100Ω 1% 0402
3IB4	4822 117 13601	22kΩ 5% 0402
3IB5	4822 117 13601	22kΩ 5% 0402
3IC1▲	4822 117 13574	1.5Ω 5% 1206
3IC2	4822 117 13601	22kΩ 5% 0402
3IC3	4822 117 13601	22kΩ 5% 0402
3IC4	4822 117 13545	100Ω 1% 0402
3IC6	4822 117 13545	100Ω 1% 0402
3IC8	3198 031 05610	560Ω 5% 0.01W 0402
3IC9	4822 117 13601	22kΩ 5% 0402
3ID0	3198 031 04720	4.7kΩ 5% 0402
3ID1	3198 031 01540	150kΩ 5% 0402
3ID5	3198 031 01090	10Ω 5% 0.01W 0402
3ID7	4822 117 11297	100kΩ 5% 0.1W
3ID8	4822 117 11297	100kΩ 5% 0.1W
3ID9	3198 031 05610	560Ω 5% 0.01W 0402
3IE2	4822 117 13545	100Ω 1% 0402
3IE3	4822 117 13545	100Ω 1% 0402
3IE7	3198 031 01090	10Ω 5% 0.01W 0402
3IE9	4822 117 13601	22kΩ 5% 0402
3IF0	4822 117 13545	100Ω 1% 0402
3IF5	4822 117 13601	22kΩ 5% 0402
3IF6	4822 051 30101	100Ω 5% 0.062W
3IF6	4822 117 13545	100Ω 1% 0402
3IF7	4822 051 30101	100Ω 5% 0.062W
3IF7	4822 117 13545	100Ω 1% 0402
3IG0	3198 031 05610	560Ω 5% 0.01W 0402
3IG0	4822 117 13548	1kΩ 5% 0402
3IG1	3198 031 01090	10Ω 5% 0.01W 0402
3IG3	3198 031 05610	560Ω 5% 0.01W 0402
3IG3	4822 117 13548	1kΩ 5% 0402
3IG4	3198 031 01090	10Ω 5% 0.01W 0402
3IG6	3198 031 05610	560Ω 5% 0.01W 0402
3IG6	4822 117 13548	1kΩ 5% 0402
3IG7	3198 031 01090	10Ω 5% 0.01W 0402
3IH1	3198 031 04730	47Ω 5% 0402
3IH7	3198 031 05610	560Ω 5% 0.01W 0402
3IH8	3198 031 04730	47Ω 5% 0402
3IH9	3198 031 04730	47Ω 5% 0402
3IHA	4822 117 13545	100Ω 1% 0402
3IHB	4822 117 13545	100Ω 1% 0402
3IHC	4822 117 13545	100Ω 1% 0402
3IHG	4822 117 12903	1.8kΩ 1% 0.063W 0603
3II0	4822 117 13606	10kΩ 5% 0.01W 0402
3II1	4822 117 13601	22kΩ 5% 0402
3II2	4822 117 13601	22kΩ 5% 0402
3II3	3198 031 04730	47Ω 5% 0402
3II4	3198 031 04730	47Ω 5% 0402
3II6	4822 117 13601	22kΩ 5% 0402
3II7	4822 117 13601	22kΩ 5% 0402
3II8	4822 117 13548	1kΩ 5% 0402
3II9	4822 117 13548	1kΩ 5% 0402
3IJ0	4822 117 13545	100Ω 1% 0402
3IJ1	4822 117 13545	100Ω 1% 0402
3IJ8	4822 117 13548	1kΩ 5% 0402
3IK0	4822 117 13548	1kΩ 5% 0402
3IK2	4822 117 13601	22kΩ 5% 0402
3IK3	4822 117 13601	22kΩ 5% 0402
3IK7▲	4822 117 11152	4.7Ω 5%
3IL1	3198 031 05610	560Ω 5% 0.01W 0402
3IL3	3198 031 01090	10Ω 5% 0.01W 0402
3IL8	3198 031 05610	560Ω 5% 0.01W 0402
3IM0	3198 031 01090	10Ω 5% 0.01W 0402
3IM4	3198 031 05610	560Ω 5% 0.01W 0402
3IN0	3198 031 01090	10Ω 5% 0.01W 0402
3IN1	4822 117 13548	1kΩ 5% 0402
3IN4	4822 117 11748	Fuse 2.2Ω 5% 1206
3IN5	4822 117 13601	22kΩ 5% 0402
3IN6	4822 117 13601	22kΩ 5% 0402
3IN8	3198 031 01090	10Ω 5% 0.01W 0402
3IO5	4822 117 13606	10kΩ 5% 0.01W 0402
3IO6	4822 117 13606	10kΩ 5% 0.01W 0402
3IP0	3198 031 08220	8.2kΩ 5% 0.5W
3IP1	4822 117 13602	2.2kΩ 5% 0.01W 0402
3IP2	4822 117 13596	220Ω 5% 0.01W 0402
3IP3	4822 051 30689	68Ω 5% 0.063W 0603
3IP3	4822 051 30759	75Ω 5% 0.062W
3IP4	3198 031 02710	270Ω 5% 0.1W 0402
3IP5▲	4822 117 11748	Fuse 2.2Ω 5% 1206
3IP6	4822 117 13548	1kΩ 5% 0402
3IP7	3198 031 02720	2.7kΩ 5% 0.01W 0402
3IP8	4822 117 13548	1kΩ 5% 0402
3IQ0	3198 031 01090	10Ω 5% 0.01W 0402
3IQ5	3198 031 04730	47Ω 5% 0402
3IQ6	4822 117 13545	100Ω 1% 0402
3IQ7	4822 117 13545	100Ω 1% 0402
3IQ8	3198 031 03320	3.3kΩ 5% 0402
3IQ9	4822 117 13548	1kΩ 5% 0402
3IR1	3198 031 02710	270Ω 5% 0.1W 0402
3IR2	3198 031 04720	4.7kΩ 5% 0402
3IR3	3198 031 04720	4.7kΩ 5% 0402
3IR4	4822 117 13545	100Ω 1% 0402
3IR5	4822 117 13546	47Ω 5% 0402
3IR6	4822 117 13546	47Ω 5% 0402
3IR7	4822 117 13543	470Ω 5% 0402
3IR8	3198 031 03320	3.3kΩ 5% 0402
3IR9	2322 706 71201	120Ω 1% 0402
3IS0	2322 706 71201	120Ω 1% 0402
3IS1	2322 706 71201	120Ω 1% 0402
3IS2	4822 117 13545	100Ω 1% 0402
3IS5	2322 706 71201	120Ω 1% 0402
3IS7	4822 117 11297	100kΩ 5% 0.1W
3IT0	3198 031 04730	47Ω 5% 0402
3IT1	3198 031 04730	47Ω 5% 0402
3IT4	3198 031 04730	47Ω 5% 0402
3IT5	2322 706 71201	120Ω 1% 0402
3IT6	2322 706 71201	120Ω 1% 0402
3IT7	4822 117 13548	1kΩ 5% 0402
3IT8	4822 117 13548	1kΩ 5% 0402
3IT9	4822 117 13597	330Ω 5% 0402 0.01W
3IU0▲	4822 117 11748	Fuse 2.2Ω 5% 1206
3IV0	3198 031 08220	8.2kΩ 5% 0.5W
3IV1	4822 117 13548	1kΩ 5% 0402
3IV2	4822 117 13543	470Ω 5% 0402
3IV3	4822 117 13548	1kΩ 5% 0402
3IV4	4822 117 13548	1kΩ 5% 0402
3IV5	4822 117 13548	1kΩ 5% 0402
3IV6	4822 117 13548	1kΩ 5% 0402
3IW4	3198 031 06820	6.8kΩ 5% 0.01W 0402
3IW4	4822 117 13548	1kΩ 5% 0402
3IW5	3198 031 02720	2.7kΩ 5% 0.01W 0402
3IW5	4822 117 13548	1kΩ 5% 0402
3IW6	4822 117 13548	1kΩ 5% 0402
3IY1	4822 117 13601	22kΩ 5% 0402
3IY2	3198 031 01540	150kΩ 5% 0402
3IY3	4822 117 11297	100kΩ 5% 0.1W
3IY4	4822 117 11297	100kΩ 5% 0.1W
3L03	4822 117 13545	100Ω 1% 0402
3L04	4822 117 13545	100Ω 1% 0402
3L05	4822 117 13545	100Ω 1% 0402
3L06	4822 117 13545	100Ω 1% 0402
3L08	3198 031 02720	2.7kΩ 5% 0.01W 0402
3L11	4822 117 13545	100Ω 1% 0402
3L12	4822 117 13543	470Ω 5% 0402
3L28	4822 117 13543	470Ω 5% 0402
3L29	3198 031 01510	150Ω 5% 0.01W 0402
3L30	3198 031 01510	150Ω 5% 0.01W 0402
3L31	3198 031 01510	150Ω 5% 0.01W 0402
3L32	4822 117 13543	470Ω 5% 0402
3L33	4822 117 13543	470Ω 5% 0402
3P00▲	4822 117 11748	Fuse 2.2Ω 5% 1206
3P01▲	4822 117 11748	Fuse 2.2Ω 5% 1206
3P02▲	4822 117 11151	1Ω 5%
3P03	4822 117 13602	2.2kΩ 5% 0.01W 0402
3P04	3198 031 04720	4.7kΩ 5% 0402
3P05	3198 031 05620	5.6kΩ 5% 0.01W 0402
3P06	4822 117 13545	100Ω 1% 0402
3P07	3198 031 02720	2.7kΩ 5% 0.01W 0402
3P07	4822 051 30272	2.7kΩ 5% 0.062W
3P08	3198 031 04720	4.7kΩ 5% 0402
3P11	4822 117 13546	47Ω 5% 0402
3P16	3198 031 04720	4.7kΩ 5% 0402
3P18	4822 117 13546	47Ω 5% 0402
3P22	4822 117 13545	100Ω 1% 0402
3P23	4822 117 13545	100Ω 1% 0402
3P24	3198 031 01530	15kΩ 5% 0.01W 0402
3P25	3198 031 03910	390Ω 1% 0402
3P26	4822 117 13543	470Ω 5% 0402
3P27	3198 031 01810	180Ω 5% 0402
3P28	3198 031 03910	390Ω 1% 0402
3P28	3198 031 08210	820Ω 5% 0.5W
3P29	4822 117 11297	100kΩ 5% 0.1W
3P30	4822 117 13545	100Ω 1% 0402
3P31	4822 117 13543	470Ω 5% 0402
3P32	3198 031 05610	560Ω 5% 0.01W 0402
3P33	4822 117 13548	1kΩ 5% 0402
3P34	4822 117 13546	47Ω 5% 0402
3P35	4822 117 13543	470Ω 5% 0402
3P36	4822 117 13548	1kΩ 5% 0402
3P40	3198 031 01210	120Ω 5% 0.01W 0402
3P44	4822 117 13545	100Ω 1% 0402
3P48	4822 117 13545	100Ω 1% 0402
3P49	3198 031 03910	390Ω 1% 0402
3P56	3198 031 01090	10Ω 5% 0.01W 0402
3P57	3198 031 06810	680Ω 5% 0.01W 0402
3P58	4822 117 13545	100Ω 1% 0402
3P59	4822 117 13545	100Ω 1% 0402
3P60	3198 031 06810	680Ω 5% 0.01W 0402
3P61	3198 031 02730	27kΩ 5% 0402
3P62	3198 031 01090	10Ω 5% 0.01W 0402
3P63	3198 031 06810	680Ω 5% 0.01W 0402
3P64	3198 031 04720	4.7kΩ 5% 0402
3P65	4822 117 13545	100Ω 1% 0402
3P66	4822 117 13545	100Ω 1% 0402
3P67	3198 031 04720	4.7kΩ 5% 0402
3P68	3198 031 04720	4.7kΩ 5% 0402
3P69	3198 031 04720	4.7kΩ 5% 0402
3P70	3198 031 04720	4.7kΩ 5% 0402
3P72	3198 031 04720	4.7kΩ 5% 0402
3P74▲	4822 117 11748	Fuse 2.2Ω 5% 1206
3P75	4822 117 13545	100Ω 1% 0402
3P76	3198 031 01090	10Ω 5% 0.01W 0402
3P85	3198 031 04720	4.7kΩ 5% 0402
3P86	4822 117 13606	10kΩ 5% 0.01W 0402
3P87	4822 117 13606	10kΩ 5% 0.01W 0402
3P88▲	2322 750 63908	3.9Ω 5% Fuse 1206
3P90	3198 031 05610	560Ω 5% 0.01W 0402
3P91	3198 031 05610	560Ω 5% 0.01W 0402
3P92	3198 031 05610	560Ω 5% 0.01W 0402
3P96	3198 031 04720	4.7kΩ 5% 0402
3P97	3198 031 04720	4.7kΩ 5% 0402
3P98	3198 031 01090	10Ω 5% 0.01W 0402
3P99	3198 031 06810	680Ω 5% 0.01W 0402
3PA0	4822 117 13596	220Ω 5% 0.01W 0402
3PA1	4822 117 13545	100Ω 1% 0402
3PA3	4822 117 13545	100Ω 1% 0402
3PA7	4822 117 13545	100Ω 1% 0402
3PA8	4822 117 13596	220Ω 5% 0.01W 0402
3PA9	3198 031 03930	39kΩ 5% 0402
3PB2	3198 031 01520	1.2kΩ 5% 0.01W 0402
3PB4	3198 031 01520	1.2kΩ 5% 0.01W 0402
3PB6	3198 031 01220	1.2kΩ 5% 0.01W 0402
3PB7	4822 117 13545	100Ω 1% 0402
3PB8	3198 031 01820	1.8kΩ 5% 0.01W 0402
3PB9	3198 031 03320	3.3kΩ 5% 0402

3PC0	3198 031 03320	3.3kΩ 5% 0402
3PC1	4822 117 13545	100Ω 1% 0402
3PC2	4822 117 13545	100Ω 1% 0402
3PC4	3198 031 06810	680Ω 5% 0.01W 0402
3PC5	3198 031 04720	4.7kΩ 5% 0402
3PC6	3198 031 03930	39kΩ 5% 0402
3PC7	4822 117 13596	220Ω 5% 0.01W 0402
3PC8	4822 117 13545	100Ω 1% 0402
3PD0	4822 117 13596	220Ω 5% 0.01W 0402
3PD2	4822 117 13545	100Ω 1% 0402
3PD3	3198 031 01820	1.8kΩ 5% 0.01W 0402
3PD5	3198 031 03320	3.3kΩ 5% 0402
3PD7	3198 031 01220	1.2kΩ 5% 0.01W 0402
3PD8	3198 031 03320	3.3kΩ 5% 0402
3PD9	3198 031 03320	3.3kΩ 5% 0402
3PE0	3198 031 01520	1.2kΩ 5% 0.01W 0402
3PE2	3198 031 01520	1.2kΩ 5% 0.01W 0402
3PE9	4822 117 13597	330Ω 5% 0402 0.01W
3PF0	3198 031 01210	120Ω 5% 0.01W 0402
3PF1	3198 031 01520	1.2kΩ 5% 0.01W 0402
3PF2	3198 031 02710	270Ω 5% 0.1W 0402
3PF3	3198 031 03320	3.3kΩ 5% 0402
3PF4	4822 117 13601	22kΩ 5% 0402
3PF5	4822 117 13548	1kΩ 5% 0402
3PF6	3198 031 05610	560Ω 5% 0.01W 0402
3PF7	4822 117 13543	470Ω 5% 0402
3PF7	4822 117 13545	100Ω 1% 0402
3PF8	3198 031 08210	820Ω 5% 0.5W
3PF9	3198 031 01210	120Ω 5% 0.01W 0402
3PG0	3198 031 05610	560Ω 5% 0.01W 0402
3PG1	3198 031 06890	68Ω 5% 0402
3PG2	3198 031 06810	680Ω 5% 0.01W 0402
3PG3	3198 031 06810	680Ω 5% 0.01W 0402
3PG4	3198 031 06810	680Ω 5% 0.01W 0402
3PG5	3198 031 06810	680Ω 5% 0.01W 0402
3PG6	3198 031 06810	680Ω 5% 0.01W 0402
3PG7	3198 031 04720	4.7kΩ 5% 0402
3PG8	4822 117 13548	1kΩ 5% 0402
3PH2	4822 117 13546	47Ω 5% 0402
3PH3	4822 117 13546	47Ω 5% 0402
3PH4	4822 117 13546	47Ω 5% 0402
3PH5	4822 117 13546	47Ω 5% 0402
3PH6	4822 117 13546	47Ω 5% 0402
3PH7	4822 117 13546	47Ω 5% 0402
3PH8	4822 117 13546	47Ω 5% 0402
3PH9	4822 117 13546	47Ω 5% 0402
3PI0	4822 117 13546	47Ω 5% 0402
3PJ0	3198 031 01090	10Ω 5% 0.01W 0402
3PJ1	3198 031 06810	680Ω 5% 0.01W 0402
3PJ2	4822 117 13597	330Ω 5% 0402 0.01W
3PJ3	3198 031 01210	120Ω 5% 0.01W 0402
3PJ4	3198 031 06810	680Ω 5% 0.01W 0402
3PJ5	3198 031 08210	820Ω 5% 0.5W
3PJ7	4822 117 13602	2.2kΩ 5% 0.01W 0402
3PJ8	3198 031 01820	1.8kΩ 5% 0.01W 0402
3PJ9	3198 031 04720	4.7kΩ 5% 0402
3T10	4822 117 13606	10kΩ 5% 0.01W 0402
3T11	4822 117 13606	10kΩ 5% 0.01W 0402
3T12	4822 117 13548	1kΩ 5% 0402
3T13	4822 117 13606	10kΩ 5% 0.01W 0402
3T14	3198 031 04730	47Ω 5% 0402
3T15	4822 117 13548	1kΩ 5% 0402
3T15	4822 117 13606	10kΩ 5% 0.01W 0402
3T16	4822 117 11297	100kΩ 5% 0.1W
3T17	4822 117 13606	10kΩ 5% 0.01W 0402
3T18	3198 031 02720	2.7kΩ 5% 0.01W 0402
3T19	4822 117 13596	220Ω 5% 0.01W 0402
3T20	2322 706 71002	1kΩ 1% 0402
3T22	3198 031 04720	4.7kΩ 5% 0402
3T23	4822 117 13548	1kΩ 5% 0402
3T24	2322 706 73902	3.9kΩ 1% 0402
3T25	3198 031 06820	6.8kΩ 5% 0.01W 0402
3T26	4822 117 13613	2.2Ω 5% 0603
3T27	4822 051 30109	10Ω 5% 0.062W
3T27	4822 117 13613	2.2Ω 5% 0603
3T28	4822 051 30109	10Ω 5% 0.062W
3T29	4822 117 13606	10kΩ 5% 0.01W 0402
3T30	4822 117 13606	10kΩ 5% 0.01W 0402
3T31	4822 117 13545	100Ω 1% 0402
3T32	4822 117 13548	1kΩ 5% 0402
3T33▲	5322 117 11726	10Ω 5%
3T51	4822 117 13548	1kΩ 5% 0402
3T52	4822 117 13606	10kΩ 5% 0.01W 0402
3T53	3198 031 04740	470kΩ 5% 0402
3T54	4822 117 13606	10kΩ 5% 0.01W 0402
3T55	4822 117 13606	10kΩ 5% 0.01W 0402
3T56	4822 117 13606	10kΩ 5% 0.01W 0402
3T57	4822 051 30101	100Ω 5% 0.062W
3T58	3198 031 04730	47Ω 5% 0402
3T59	4822 117 13606	10kΩ 5% 0.01W 0402
3T60	4822 117 13608	4.7Ω 5% 0603 0.62W
3U01	4822 051 30102	1kΩ 5% 0.062W
3U02	4822 117 13548	1kΩ 5% 0402
3U03	4822 117 13603	33kΩ 5% 0402
3U04	4822 051 20121	120Ω 5% 0.1W
3U05	4822 051 30102	1kΩ 5% 0.062W
3U05	4822 117 13548	1kΩ 5% 0402
3U06	4822 117 13543	470Ω 5% 0402
3U07	3198 031 02290	22Ω 5% 0.1W 0402
3U08	2322 706 71502	1.5kΩ 1% 0402
3U09	3198 031 05620	5.6kΩ 5% 0.01W 0402
3U10	3198 031 01210	120Ω 5% 0.01W 0402
3U10	4822 117 13596	220Ω 5% 0.01W 0402
3U11	4822 051 30121	120Ω 5% 0.062W
3U12	4822 117 13601	22kΩ 5% 0402
3U13	4822 117 13606	10kΩ 5% 0.01W 0402
3U14	4822 051 30102	1kΩ 5% 0.062W
3U15	2322 706 73302	3.3kΩ 1% 0402
3U16	3198 031 01210	120Ω 5% 0.01W 0402
3U17	3198 031 04780	4.7Ω 5% 0402
3U18	2322 704 61002	1kΩ 1%
3U18	2322 706 71002	1kΩ 1% 0402
3U19	3198 031 04720	4.7kΩ 5% 0402
3U20	2322 704 61002	1kΩ 1%
3U20	2322 706 71002	1kΩ 1% 0402
3U21	3198 031 04730	47Ω 5% 0402
3U22	3198 031 02710	270Ω 5% 0.1W 0402
3U23	3198 031 01090	10Ω 5% 0.01W 0402
3U24	4822 117 13601	22kΩ 5% 0402
3U25	3198 031 02240	220kΩ 5% 0.1W 0402
3U26	4822 117 13601	22kΩ 5% 0402
3U27	4822 117 13601	22kΩ 5% 0402
3U28	3198 031 04730	47Ω 5% 0402
3U29	4822 051 30109	10Ω 5% 0.062W
3U30	4822 051 20121	120Ω 5% 0.1W
3U31	4822 051 20121	120Ω 5% 0.1W
3U32	3198 031 01830	18kΩ 5% 0.01W 0402
3U33	4822 117 13606	10kΩ 5% 0.01W 0402
3U34	3198 031 04740	470kΩ 5% 0402
3U35	4822 117 13606	10kΩ 5% 0.01W 0402
3U36	4822 117 13602	2.2kΩ 5% 0.01W 0402
3U37	4822 117 13601	22kΩ 5% 0402
3U38	4822 117 13602	2.2kΩ 5% 0.01W 0402
3U39	4822 117 13601	22kΩ 5% 0402
3U40	3198 031 01540	150kΩ 5% 0402
3U41	4822 117 13548	1kΩ 5% 0402
3U42	4822 117 13606	10kΩ 5% 0.01W 0402
3U43	4822 117 13601	22kΩ 5% 0402
3U44	3198 031 01050	1MΩ 5% 0402
3U45	3198 031 01050	1MΩ 5% 0402
3U46	2322 706 74703	47kΩ 1% 0402
3U46	5322 117 13029	47kΩ 1% 0.063W 0603
3U51	9965 000 23109	22Ω 5% 0603
3U52	4822 051 30102	1kΩ 5% 0.062W
3U53	3198 031 01830	18kΩ 5% 0.01W 0402
3U54	4822 117 13545	100Ω 1% 0402
3U55	4822 051 30102	1kΩ 5% 0.062W
3U56	3198 031 04720	4.7kΩ 5% 0402
3U57	4822 117 13606	10kΩ 5% 0.01W 0402
3U60	4822 117 13548	1kΩ 5% 0402
3U61	4822 117 13606	10kΩ 5% 0.01W 0402
3U62	4822 117 13548	1kΩ 5% 0402
3U63	4822 117 13602	2.2kΩ 5% 0.01W 0402
3U64	4822 117 13548	1kΩ 5% 0402
3U65	4822 117 13548	1kΩ 5% 0402
3U66	4822 117 13606	10kΩ 5% 0.01W 0402
3U67	4822 117 13545	100Ω 1% 0402
3U68	4822 117 13606	10kΩ 5% 0.01W 0402
3U69	4822 117 13548	1kΩ 5% 0402
3U70	4822 051 30102	1kΩ 5% 0.062W
3V01	3198 031 01810	180Ω 5% 0402
3V02	3198 031 01810	180Ω 5% 0402
3V17	3198 031 01810	180Ω 5% 0402
3V18	3198 031 03910	390Ω 1% 0402
3V19	3198 031 01810	180Ω 5% 0402
3V20	3198 031 01810	180Ω 5% 0402
3V21	2350 033 11339	4 x 33Ω 5%
3V21	2350 033 11689	4x 68Ω 5% Netw.
3V22	2350 033 11339	4 x 33Ω 5%
3V22	2350 033 11689	4x 68Ω 5% Netw.
3V23	2350 033 11339	4 x 33Ω 5%
3V23	2350 033 11689	4x 68Ω 5% Netw.
3V24	2350 033 11339	4 x 33Ω 5%
3V24	2350 033 11689	4x 68Ω 5% Netw.
3V25	3198 031 01810	180Ω 5% 0402
3V26	3198 031 01810	180Ω 5% 0402
3V27	3198 031 01810	180Ω 5% 0402
3V28	3198 031 01810	180Ω 5% 0402
3V29	3198 031 01810	180Ω 5% 0402
3V30	3198 031 01810	180Ω 5% 0402
3V31	3198 031 01810	180Ω 5% 0402
3V32	3198 031 01810	180Ω 5% 0402
3V33	3198 031 01810	180Ω 5% 0402
3V34	3198 031 01810	180Ω 5% 0402
3V35	4822 117 13545	100Ω 1% 0402
3V36	4822 117 13545	100Ω 1% 0402
3V37	4822 117 13545	100Ω 1% 0402
3V38	4822 117 13545	100Ω 1% 0402
3V39	3198 031 04720	4.7kΩ 5% 0402
3V40	4822 117 13545	100Ω 1% 0402
3V50	4822 117 13606	10kΩ 5% 0.01W 0402
3V51	4822 117 13606	10kΩ 5% 0.01W 0402
3V52	3198 031 04730	47Ω 5% 0402
3V52	4822 117 13606	10kΩ 5% 0.01W 0402
3V53	3198 031 04730	47Ω 5% 0402
3V53	4822 117 13606	10kΩ 5% 0.01W 0402
3V54	4822 117 13606	10kΩ 5% 0.01W 0402
3V55	4822 117 13606	10kΩ 5% 0.01W 0402
3V56	4822 117 13545	100Ω 1% 0402
3Y00	4822 117 13545	100Ω 1% 0402
3Y01	4822 117 13545	100Ω 1% 0402
3Y02	4822 117 13545	100Ω 1% 0402
3Y03	4822 117 13545	100Ω 1% 0402
3Y04	4822 117 13602	2.2kΩ 5% 0.01W 0402
3Y05	4822 117 13545	100Ω 1% 0402
3Y06	4822 117 13543	470Ω 5% 0402
3Y06	4822 117 13545	100Ω 1% 0402
3Y07	4822 117 13545	100Ω 1% 0402
3Y08	4822 117 13545	100Ω 1% 0402
3Y09	4822 117 13545	100Ω 1% 0402
3Y10	4822 117 13545	100Ω 1% 0402
3Y11	4822 117 13545	100Ω 1% 0402
3Y12	4822 117 13545	100Ω 1% 0402
3Y13	4822 117 13543	470Ω 5% 0402
3Y13	4822 117 13545	100Ω 1% 0402
3Y14	3198 031 04720	4.7kΩ 5% 0402
3Y14	4822 051 30102	1kΩ 5% 0.062W
3Y14	4822 117 13548	1kΩ 5% 0402
3Y15	4822 051 30102	1kΩ 5% 0.062W
3Y15	4822 117 13548	1kΩ 5% 0402
3Y16	4822 051 30102	1kΩ 5% 0.062W
3Y16	4822 117 13548	1kΩ 5% 0402
3Y17	4822 117 13545	100Ω 1% 0402
3Y18	4822 117 13545	100Ω 1% 0402
3Y19	4822 117 13545	100Ω 1% 0402
3Y20	3198 031 06890	68Ω 5% 0402
3Y20	4822 117 12521	68Ω 1% 0.1W
3Y21	3198 031 06890	68Ω 5% 0402
3Y22	3198 031 06890	68Ω 5% 0402
3Y23	3198 031 06890	68Ω 5% 0402
3Y24	4822 117 11297	100kΩ 5% 0.1W
3Y25	4822 117 13545	100Ω1% 0402
3Y27	4822 117 13545	100Ω1% 0402
3Y28	4822 117 13545	100Ω1% 0402
3Y29	3198 031 05620	5.6kΩ5% 0.01W 0402
3Y30	3198 031 01530	15kΩ5% 0.01W 0402
3Y34	4822 117 13545	100Ω1% 0402
3Y35	4822 117 13545	100Ω1% 0402
3Y36	4822 117 13545	100Ω1% 0402
3Y37	3198 031 04720	4.7kΩ5% 0402
3Y37	4822 117 13545	100Ω1% 0402
3Y38	4822 117 13602	2.2kΩ5% 0.01W 0402
3Y39	4822 117 13606	10kΩ5% 0.01W 0402
3Y40	4822 117 13545	100Ω1% 0402
3Z22	3198 031 04720	4.7kΩ5% 0402
3Z23	4822 117 13545	100Ω1% 0402
3Z27▲	4822 117 11151	1Ω 5%
3Z28▲	2422 086 00644	Fuse 2A T 125V
3Z28▲	4822 117 11151	1Ω 5%
3Z29	4822 117 13546	47Ω 5% 0402
3Z30	3198 031 04730	47Ω 5% 0402
3Z30	4822 117 13606	10kΩ5% 0.01W 0402
3Z31	3198 031 04730	47Ω 5% 0402
3Z31	4822 117 13606	10kΩ5% 0.01W 0402
3Z32	4822 117 13606	10kΩ5% 0.01W 0402
3Z33	4822 117 13606	10kΩ5% 0.01W 0402
3Z37	3198 031 04720	4.7kΩ5% 0402
3Z55	4822 117 13545	100Ω1% 0402
3Z56	4822 117 13548	1kΩ 5% 0402
9001	4822 117 13605	Jumper 0402
9002	4822 117 13605	Jumper 0402
9007	4822 117 13605	Jumper 0402
9010	4822 117 13605	Jumper 0402
9011▲	4822 117 13605	Jumper 0402
9012	4822 117 13605	Jumper 0402
9013	4822 117 13605	Jumper 0402
9016	4822 051 30008	Jumper 0603
9019	4822 117 13605	Jumper 0402
9020	4822 117 13605	Jumper 0402
9023	4822 117 13605	Jumper 0402
9024	4822 117 13605	Jumper 0402
9322	4822 117 13605	Jumper 0402
9410	4822 117 13605	Jumper 0402
9413	4822 117 13605	Jumper 0402
9416	4822 117 13605	Jumper 0402
9417	4822 117 13605	Jumper 0402
9418	4822 117 13605	Jumper 0402
9419	4822 117 13605	Jumper 0402
9420	4822 117 13605	Jumper 0402
9423	4822 117 13605	Jumper 0402
9424	4822 117 13605	Jumper 0402
9425	4822 117 13605	Jumper 0402

9426	4822 117 13605	Jumper 0402
9427	4822 117 13545	100Ω 1% 0402
9428	4822 117 13605	Jumper 0402
9702	4822 117 13605	Jumper 0402
9704	4822 117 13605	Jumper 0402
9706	4822 117 13605	Jumper 0402
9707	4822 117 13605	Jumper 0402
9708	4822 117 13605	Jumper 0402
9709	4822 117 13605	Jumper 0402
9710	4822 117 13605	Jumper 0402
9713	4822 117 13605	Jumper 0402
9714	4822 117 13605	Jumper 0402
9715	4822 117 13605	Jumper 0402
9716	4822 117 13605	Jumper 0402
9717	4822 117 13605	Jumper 0402
9718	4822 117 13605	Jumper 0402
9720	4822 117 13605	Jumper 0402
9721	4822 117 13605	Jumper 0402
9722	4822 117 13605	Jumper 0402
9723	4822 117 13605	Jumper 0402
9724	4822 117 13605	Jumper 0402
9727	4822 117 13605	Jumper 0402
9728	4822 117 13605	Jumper 0402
9730	4822 117 13605	Jumper 0402
9732	4822 117 13605	Jumper 0402
9750	4822 117 13605	Jumper 0402
9751	4822 117 13605	Jumper 0402
9752	4822 117 13605	Jumper 0402
9753	4822 117 13605	Jumper 0402
9754	4822 117 13605	Jumper 0402
9755	4822 117 13605	Jumper 0402
9756	4822 117 13605	Jumper 0402
9757	4822 117 13605	Jumper 0402
9758	4822 117 13605	Jumper 0402
9760	4822 117 13605	Jumper 0402
9761	4822 117 13605	Jumper 0402
9762	4822 117 13605	Jumper 0402
9763	4822 117 13605	Jumper 0402
9765	4822 117 13605	Jumper 0402
9766	4822 117 13605	Jumper 0402
9772	4822 117 13605	Jumper 0402
9773	4822 117 13605	Jumper 0402
9774	4822 117 13605	Jumper 0402
9775	4822 117 13605	Jumper 0402
9800	4822 117 13605	Jumper 0402
9801	4822 117 13605	Jumper 0402
9802	4822 117 13605	Jumper 0402
9803	4822 117 13605	Jumper 0402
9804	4822 117 13605	Jumper 0402
9805	4822 117 13605	Jumper 0402
9806	4822 117 13605	Jumper 0402
9808	4822 117 13605	Jumper 0402
9809	4822 117 13605	Jumper 0402
9811	4822 117 13605	Jumper 0402
9812	4822 117 13605	Jumper 0402
9813	2350 033 11689	4x 68Ω 5% Netw.
9814	2350 033 11689	4x 68Ω 5% Netw.
9815	2350 033 11229	4x 22Ω 5% Netw.
9815	4822 117 13605	Jumper 0402
9816	2350 033 11229	4x 22Ω 5% Netw.
9816	4822 117 13605	Jumper 0402
9817	2350 033 11229	4x 22Ω 5% Netw.
9817	4822 117 13605	Jumper 0402
9818	4822 117 13605	Jumper 0402
9819	2350 033 11229	4x 22Ω 5% Netw.
9820	2350 033 11229	4x 22Ω 5% Netw.
9820	4822 117 13605	Jumper 0402
9821	3198 031 06890	68Ω 5% 0402
9821	4822 117 13605	Jumper 0402
9822	3198 031 06890	68Ω 5% 0402
9822	4822 117 13605	Jumper 0402
9823	3198 031 06890	68Ω 5% 0402
9824	3198 031 06890	68Ω 5% 0402
9825	3198 031 06890	68Ω 5% 0402
9825	4822 117 13605	Jumper 0402
9826	3198 031 06890	68Ω 5% 0402
9826	4822 117 13605	Jumper 0402
9827	3198 031 06890	68Ω 5% 0402
9827	4822 117 13605	Jumper 0402
9A02	4822 117 13605	Jumper 0402
9A03	4822 117 13605	Jumper 0402
9A07	4822 117 13605	Jumper 0402
9A10	4822 117 13605	Jumper 0402
9A11	4822 117 13605	Jumper 0402
9A12	4822 117 13605	Jumper 0402
9A13	4822 117 13605	Jumper 0402
9A14	4822 117 13605	Jumper 0402
9A15	4822 117 13605	Jumper 0402
9A16	4822 117 13605	Jumper 0402
9A17	4822 117 13605	Jumper 0402
9A25	4822 117 13605	Jumper 0402
9A65	4822 117 13605	Jumper 0402
9C02	4822 117 13605	Jumper 0402
9E60	4822 117 13605	Jumper 0402
9E62	4822 117 13605	Jumper 0402
9E65	4822 117 13605	Jumper 0402
9E66	4822 117 13605	Jumper 0402
9E67	4822 117 13605	Jumper 0402
9E68	4822 117 13605	Jumper 0402
9E69	4822 117 13605	Jumper 0402
9E70	4822 117 13605	Jumper 0402
9E71	4822 117 13605	Jumper 0402
9E72	4822 117 13605	Jumper 0402
9E73	4822 117 13605	Jumper 0402
9E74	4822 117 13605	Jumper 0402
9E76	4822 117 13605	Jumper 0402
9E77	4822 117 13605	Jumper 0402
9I00	4822 117 13605	Jumper 0402
9I01	4822 117 13605	Jumper 0402
9I02	4822 117 13605	Jumper 0402
9I03	4822 117 13605	Jumper 0402
9I07	4822 117 13605	Jumper 0402
9I15	4822 117 13605	Jumper 0402
9I16	4822 117 13605	Jumper 0402
9I18	4822 117 13605	Jumper 0402
9I19	4822 117 13605	Jumper 0402
9I24	4822 117 13605	Jumper 0402
9I28	4822 117 13605	Jumper 0402
9I39	4822 117 13605	Jumper 0402
9I45	4822 117 13605	Jumper 0402
9I46	4822 117 13605	Jumper 0402
9I47	4822 117 13605	Jumper 0402
9I48	4822 117 13605	Jumper 0402
9I49	4822 117 13605	Jumper 0402
9I68	4822 117 13605	Jumper 0402
9I77	4822 117 13605	Jumper 0402
9I85	4822 117 13605	Jumper 0402
9IA1	4822 051 20008	Jumper 0805
9IA1	4822 117 13605	Jumper 0402
9IA3	4822 051 20008	Jumper 0805
9IA3	4822 117 13605	Jumper 0402
9IA5	4822 117 13605	Jumper 0402
9IA7	4822 117 13605	Jumper 0402
9ID0	4822 117 13605	Jumper 0402
9ID1	4822 117 13605	Jumper 0402
9ID3	4822 117 13605	Jumper 0402
9ID5	4822 117 13605	Jumper 0402
9ID8	4822 117 13605	Jumper 0402
9ID9	4822 117 13605	Jumper 0402
9P02	4822 117 13605	Jumper 0402
9P03	4822 117 13605	Jumper 0402
9P05	4822 117 13605	Jumper 0402
9P09	4822 117 13605	Jumper 0402
9P12	4822 117 13605	Jumper 0402
9P13	4822 117 13605	Jumper 0402
9P15	4822 117 13605	Jumper 0402
9P17	4822 117 13605	Jumper 0402
9P24	4822 117 13605	Jumper 0402
9P28	4822 117 13605	Jumper 0402
9P29	4822 117 13605	Jumper 0402
9P52	4822 117 13605	Jumper 0402
9P53	4822 117 13605	Jumper 0402
9P54	4822 117 13605	Jumper 0402
9P69	4822 117 13605	Jumper 0402
9P70	4822 117 13605	Jumper 0402
9P71	4822 117 13605	Jumper 0402
9P73	4822 117 13605	Jumper 0402
9P74	4822 117 13605	Jumper 0402
9P75	4822 117 13605	Jumper 0402
9PA2	4822 117 13605	Jumper 0402
9PA7	4822 117 13605	Jumper 0402
9PB1	4822 117 13605	Jumper 0402
9PB2	4822 117 13605	Jumper 0402
9PB4	4822 117 13605	Jumper 0402
9PB5	4822 117 13605	Jumper 0402
9PB8	4822 117 13605	Jumper 0402
9T01	4822 117 13601	22kΩ 5% 0402
9T02	4822 051 30223	22kΩ 5% 0.062W
9T02	4822 117 13601	22kΩ 5% 0402
9T04	4822 117 13605	Jumper 0402
9T06	4822 117 13605	Jumper 0402
9T07	4822 117 13605	Jumper 0402
9T08	4822 117 13605	Jumper 0402
9T09	4822 117 13605	Jumper 0402
9T10	4822 117 13605	Jumper 0402
9T11	4822 117 13605	Jumper 0402
9T12	4822 117 13605	Jumper 0402
9T14	4822 117 13605	Jumper 0402
9T50	4822 117 13605	Jumper 0402
9Y00	4822 117 13605	Jumper 0402
9Y01	4822 117 13605	Jumper 0402
9Y03	4822 117 13605	Jumper 0402
9Y05	4822 117 13605	Jumper 0402
9Y06	4822 117 13605	Jumper 0402
9Y12	4822 117 13605	Jumper 0402
9Y13	4822 117 13605	Jumper 0402
9Y14	4822 117 13605	Jumper 0402
9Y16	4822 117 13605	Jumper 0402
5003	4822 157 11716	Bead 30Ω at 100MHz
5401	3198 018 56880	6.8μH 10% 0603
5403	2422 549 00195	Bead 40.4MHz
5404	4822 157 11506	Bead 120Ω at 100MHz
5405	4822 157 11506	Bead 120Ω at 100MHz
5406	3198 018 52280	2.2μF 10% 1008
5408	2422 549 44983	Trimmer 78MHz 5CCB
5411	4822 157 11892	0.22μH 10% 0805
5415	4822 157 11716	Bead 30Ω at 100MHz
5416	4822 157 11716	Bead 30Ω at 100MHz
5703	4822 157 11716	Bead 30Ω at 100MHz
5705	4822 157 11876	6.8μH 10% 0805
5713	4822 157 11716	Bead 30Ω at 100MHz
5714	4822 157 11716	Bead 30Ω at 100MHz
5719	4822 157 11716	Bead 30Ω at 100MHz
5720	4822 157 11716	Bead 30Ω at 100MHz
5722	4822 157 11716	Bead 30Ω at 100MHz
5723	4822 157 11716	Bead 30Ω at 100MHz
5726	4822 157 11716	Bead 30Ω at 100MHz
5728	4822 157 11716	Bead 30Ω at 100MHz
5750	4822 157 11716	Bead 30Ω at 100MHz
5751	4822 157 11716	Bead 30Ω at 100MHz
5752	4822 157 11716	Bead 30Ω at 100MHz
5753	4822 157 11716	Bead 30Ω at 100MHz
5755	4822 157 11716	Bead 30Ω at 100MHz
5756	4822 157 11716	Bead 30Ω at 100MHz
5757	4822 157 11716	Bead 30Ω at 100MHz
5758	4822 157 11716	Bead 30Ω at 100MHz
5759	4822 157 11716	Bead 30Ω at 100MHz
5760	4822 157 11716	Bead 30Ω at 100MHz
5761	4822 157 11716	Bead 30Ω at 100MHz
5762	4822 157 11716	Bead 30Ω at 100MHz
5763	4822 157 11716	Bead 30Ω at 100MHz
5764	4822 157 11716	Bead 30Ω at 100MHz
5767	4822 157 11716	Bead 30Ω at 100MHz
5768	4822 157 11716	Bead 30Ω at 100MHz
5769	4822 157 11716	Bead 30Ω at 100MHz
5770	4822 157 11716	Bead 30Ω at 100MHz
5771	4822 157 11716	Bead 30Ω at 100MHz
5772	4822 157 11716	Bead 30Ω at 100MHz
5775	4822 157 11716	Bead 30Ω at 100MHz
5777	4822 157 11716	Bead 30Ω at 100MHz
5778	4822 157 11876	6.8μH 10% 0805
5779	4822 157 11716	Bead 30Ω at 100MHz
5800	4822 157 11716	Bead 30Ω at 100MHz
5801	4822 157 11716	Bead 30Ω at 100MHz
5A00	4822 157 11716	Bead 30Ω at 100MHz
5A01	4822 157 11716	Bead 30Ω at 100MHz
5A02	4822 157 11716	Bead 30Ω at 100MHz
5A03	4822 157 11716	Bead 30Ω at 100MHz
5A06	4822 157 11716	Bead 30Ω at 100MHz
5A19	4822 157 11828	22μH 20% 0805
5E00	4822 156 21729	Bead 1kΩ 100MHz 0805
5E01	2422 549 42896	Bead 120Ω 100MHz
5E01	4822 156 21729	Bead 1kΩ 100MHz 0805
5E02	4822 156 21729	Bead 1kΩ 100MHz 0805
5E03	4822 156 21729	Bead 1kΩ 100MHz 0805
5E50	2422 549 43062	Bead 600Ω at 100MHz
5E50	4822 157 11499	Bead 60Ω at 100MHz
5E51	2422 549 42896	Bead 120Ω 100MHz
5E51	2422 549 43062	Bead 600Ω at 100MHz
5E52	2422 549 43062	Bead 600Ω at 100MHz
5E53	2422 535 94134	10μH 20% 0805
5E53	2422 536 00779	10μH 20%
5E54	2422 549 43062	Bead 600Ω at 100MHz
5E54	4822 157 11499	Bead 60Ω at 100MHz
5E55	2422 549 43062	Bead 600Ω at 100MHz
5E58	2422 549 43062	Bead 600Ω at 100MHz
5I01	4822 157 11876	6.8μH 10% 0805
5I05	4822 157 11716	Bead 30Ω at 100MHz
5I06	4822 157 11716	Bead 30Ω at 100MHz
5I12	4822 157 11716	Bead 30Ω at 100MHz
5I13	4822 157 11716	Bead 30Ω at 100MHz
5I21	4822 157 11716	Bead 30Ω at 100MHz
5I22	4822 157 11716	Bead 30Ω at 100MHz
5I30	4822 157 11716	Bead 30Ω at 100MHz
5I31	4822 157 11716	Bead 30Ω at 100MHz
5I32	4822 157 11716	Bead 30Ω at 100MHz
5I33	4822 157 11716	Bead 30Ω at 100MHz
5I34	4822 157 11716	Bead 30Ω at 100MHz
5I35	4822 157 11716	Bead 30Ω at 100MHz
5I36	3198 018 34770	0.47μH 10% 0805
5I36	4822 157 11892	0.22μH 10% 0805
5I37	3198 018 34770	0.47μH 10% 0805
5I37	4822 157 11892	0.22μH 10% 0805
5I38	3198 018 34770	0.47μH 10% 0805
5I38	4822 157 11892	0.22μH 10% 0805
5I39	4822 157 11716	Bead 30Ω at 100MHz
5I40	4822 157 11716	Bead 30Ω at 100MHz
5I41	4822 157 11716	Bead 30Ω at 100MHz

5142	4822 156 21729	Bead 1kΩ 100MHz 0805
5145	4822 157 11716	Bead 30Ω at 100MHz
5146	4822 157 11716	Bead 30Ω at 100MHz
5147	4822 157 11716	Bead 30Ω at 100MHz
5L02	3198 018 51080	1µH 10% 0603
5L02	3198 018 54770	0.47µF 10% 0603
5L04	3198 018 54770	0.47µF 10% 0603
5L06	3198 018 51080	1µH 10% 0603
5L06	3198 018 54770	0.47µF 10% 0603
5L13	4822 156 21729	Bead 1kΩ 100MHz 0805
5L14	4822 156 21729	Bead 1kΩ 100MHz 0805
5L15	4822 156 21729	Bead 1kΩ 100MHz 0805
5L16	4822 157 11716	Bead 30Ω at 100MHz
5L17	4822 157 11716	Bead 30Ω at 100MHz
5L18	4822 157 11716	Bead 30Ω at 100MHz
5P00	4822 157 11716	Bead 30Ω at 100MHz
5P01	4822 157 11716	Bead 30Ω at 100MHz
5P02	3198 018 32770	0.27µH 10% 0805
5P03	4822 157 11716	Bead 30Ω at 100MHz
5P04	3198 018 56880	6.8µH 10% 0603
5P06	4822 157 10586	2.2µH 10% 0805
5P07	2422 549 00195	Bead 40.4MHz
5P08	2422 549 44983	Trimmer 78MHz 5CCB
5P09	4822 157 11716	Bead 30Ω at 100MHz
5P10	4822 157 11716	Bead 30Ω at 100MHz
5P51	4822 157 11716	Bead 30Ω at 100MHz
5PA0	4822 157 71694	0.82µH 10%
5PA1	3198 018 31290	12µH 10%
5PA2	4822 157 10977	4.7µH 10%
5PA3	4822 157 10977	4.7µH 10%
5PA4	4822 157 71694	0.82µH 10%
5PA5	3198 018 31290	12µH 10%
5PA6	3198 018 31290	12µH 10%
5PA7	3198 018 31290	12µH 10%
5PA8	3198 018 31290	12µH 10%
5PA9	4822 157 11716	Bead 30Ω at 100MHz
5PB0	4822 157 11716	Bead 30Ω at 100MHz
5T02	4822 157 71206	Bead 600Ω 100MHz
5T03	2422 535 94134	10µH 20% 0805
5T04	4822 157 71206	Bead 600Ω 100MHz
5T10	2422 536 00779	10µH 20%
5T11	2422 535 94995	10µF 20% 10145
5T14	2422 549 44197	Bead 220Ω at 100MHz
5T15	2422 549 44197	Bead 220Ω at 100MHz
5T20	4822 157 71206	Bead 600Ω 100MHz
5T22	4822 157 71206	Bead 600Ω 100MHz
5T25	2422 535 94134	10µH 20% 0805
5U01	3104 308 20661	Transf. BD13118-02
5U02	2422 535 94134	10µH 20% 0805
5U02	2422 536 00779	10µH 20%
5U03	2422 549 44197	Bead 220Ω at 100MHz
5U03	4822 157 11716	Bead 30Ω at 100MHz
5U04	2422 549 44197	Bead 220Ω at 100MHz
5U04	4822 157 11716	Bead 30Ω at 100MHz
5U05	2422 535 94134	10µH 20% 0805
5U05	2422 536 00779	10µH 20%
5U06	2422 535 94134	10µH 20% 0805
5U06	2422 536 00779	10µH 20%
5Y00	4822 157 11716	Bead 30Ω at 100MHz
5Y01	4822 157 11716	Bead 30Ω at 100MHz
5Y02	2422 549 44197	Bead 220Ω at 100MHz
5Y03	2422 549 44197	Bead 220Ω at 100MHz
5Y06	4822 157 11716	Bead 30Ω at 100MHz
5Y07	4822 157 11716	Bead 30Ω at 100MHz
5Y11	4822 157 11716	Bead 30Ω at 100MHz
5Y12	4822 157 11716	Bead 30Ω at 100MHz
5Y13	4822 157 11716	Bead 30Ω at 100MHz
5Y14	4822 157 11716	Bead 30Ω at 100MHz
5Y15	4822 157 11716	Bead 30Ω at 100MHz
5Y16	4822 157 11716	Bead 30Ω at 100MHz
5Y17	4822 157 11716	Bead 30Ω at 100MHz
5Y18	4822 157 11716	Bead 30Ω at 100MHz
5Y19	2422 549 43769	Bead 30Ω at 100MHz
5Y19	4822 157 11716	Bead 30Ω at 100MHz
5Y20	4822 157 11716	Bead 30Ω at 100MHz
5Y21	4822 117 10353	150Ω 1% 0.1W
5Y21	4822 157 11716	Bead 30Ω at 100MHz
5Y22	4822 117 10353	150Ω 1% 0.1W
5Y22	4822 157 11716	Bead 30Ω at 100MHz
5Y23	4822 157 11716	Bead 30Ω at 100MHz
5Z01	2422 549 45325	Bead 67Ω at 100MHz
5Z02	2422 549 45325	Bead 67Ω at 100MHz
5Z03	2422 549 45325	Bead 67Ω at 100MHz
5Z04	2422 549 45325	Bead 67Ω at 100MHz
5Z05	2422 549 45325	Bead 67Ω at 100MHz
5Z06	2422 549 44197	Bead 220Ω at 100MHz
5Z07	2422 549 44197	Bead 220Ω at 100MHz
5Z08	2422 549 44197	Bead 220Ω at 100MHz
5Z09	2422 549 44197	Bead 220Ω at 100MHz

6001	4822 130 80622	BAT54
6002	4822 130 11397	BAS316
6003	4822 130 80622	BAT54
6004	4822 130 80622	BAT54
6005	4822 130 11422	PLVA2650A
6006	4822 130 11564	UDZ3.9B
6403	9340 552 30115	BA591
6701	4822 130 11397	BAS316
6702	4822 130 11397	BAS316
6703	4822 130 11397	BAS316
6705	4822 130 11397	BAS316
6710	4822 130 11397	BAS316
6711	4822 130 11397	BAS316
6712	4822 130 11397	BAS316
6713	4822 130 11397	BAS316
6714	4822 130 11397	BAS316
6715	4822 130 11397	BAS316
6717	4822 130 11397	BAS316
6718	4822 130 11397	BAS316
6719	9322 128 69685	S1D
6720	4822 130 11397	BAS316
6721	4822 130 11397	BAS316
6722	4822 130 11397	BAS316
6723	4822 130 11397	BAS316
6A00	4822 130 11551	UDZS10B
6A01	4822 130 11397	BAS316
6A02	4822 130 10838	UDZ3.3B
6A02	9322 159 70685	MM3Z9V1
6E51	4822 130 11397	BAS316
6E52	4822 130 11397	BAS316
6E53	4822 130 11397	BAS316
6E54	4822 130 11397	BAS316
6E55	4822 130 11397	BAS316
6E56	4822 130 11397	BAS316
6101	4822 130 10328	BAV99W
6106	4822 130 10328	BAV99W
6107	4822 130 10328	BAV99W
6108	4822 130 11423	PLVA2656A
6109	4822 130 11423	PLVA2656A
6110	4822 130 11397	BAS316
6111	4822 130 11397	BAS316
6112	4822 130 11397	BAS316
6113	4822 130 11397	BAS316
6114	4822 130 10328	BAV99W
6115	4822 130 10328	BAV99W
6116	4822 130 10328	BAV99W
6117	4822 130 10328	BAV99W
6118	4822 130 10328	BAV99W
6119	4822 130 10328	BAV99W
6120	4822 130 10328	BAV99W
6121	4822 130 10328	BAV99W
6122	4822 130 11416	PDZ6.8B
6123	4822 130 11416	PDZ6.8B
6124	4822 130 11416	PDZ6.8B
6125	4822 130 11416	PDZ6.8B
6126	4822 130 11416	PDZ6.8B
6127	4822 130 11416	PDZ6.8B
6128	4822 130 11416	PDZ6.8B
6129	4822 130 11416	PDZ6.8B
6130	4822 130 11416	PDZ6.8B
6131	4822 130 11416	PDZ6.8B
6132	4822 130 11416	PDZ6.8B
6133	4822 130 11416	PDZ6.8B
6135	4822 130 11416	PDZ6.8B
6136	4822 130 11416	PDZ6.8B
6137	4822 130 11416	PDZ6.8B
6138	4822 130 11416	PDZ6.8B
6139	4822 130 11416	PDZ6.8B
6140	4822 130 11416	PDZ6.8B
6141	4822 130 11416	PDZ6.8B
6142	4822 130 11416	PDZ6.8B
6143	4822 130 11416	PDZ6.8B
6144	4822 130 11416	PDZ6.8B
6145	4822 130 11416	PDZ6.8B
6146	4822 130 11416	PDZ6.8B
6147	4822 130 11416	PDZ6.8B
6148	4822 130 11416	PDZ6.8B
6149	9322 129 41685	BZM55-C12
6150	4822 130 11416	PDZ6.8B
6151	4822 130 11416	PDZ6.8B
6152	4822 130 11416	PDZ6.8B
6153	4822 130 11416	PDZ6.8B
6154	4822 130 11416	PDZ6.8B
6155	4822 130 11416	PDZ6.8B
6156	4822 130 11416	PDZ6.8B
6161	4822 130 11416	PDZ6.8B
6163	4822 130 11397	BAS316
6164	4822 130 11397	BAS316
6165	4822 130 11397	BAS316
6166	4822 130 11397	BAS316
6168	4822 130 11416	PDZ6.8B
6169	4822 130 11416	PDZ6.8B
6170	4822 130 11416	PDZ6.8B
6175	4822 130 11416	PDZ6.8B
6177	4822 130 11416	PDZ6.8B
6190	4822 130 11416	PDZ6.8B
6191	4822 130 11416	PDZ6.8B
6192	4822 130 11416	PDZ6.8B
6193	4822 130 11416	PDZ6.8B
6199	4822 130 11422	PLVA2650A
6199	4822 130 11423	PLVA2656A
61A0	9322 129 41685	BZM55-C12
61A7	4822 130 11397	BAS316
6P03	9340 552 30115	BA591
6P10	9322 102 64685	UDZ2.7B
6PA1	4822 130 11397	BAS316
6PB1	4822 130 11397	BAS316
6PB2	4822 130 11397	BAS316
6PB3	4822 130 11397	BAS316
6PB4	4822 130 11397	BAS316
6PB5	4822 130 11397	BAS316
6PB6	4822 130 11397	BAS316
6PB7	4822 130 11397	BAS316
6PB8	4822 130 11397	BAS316
6PB9	4822 130 11397	BAS316
6T01	4822 130 11397	BAS316
6T02	4822 130 11397	BAS316
6T03	4822 130 11397	BAS316
6T04	4822 130 11397	BAS316
6T08	9340 548 71115	PDZ33B
6T10	4822 130 11397	BAS316
6T11	9340 548 58115	PDZ9.1B
6U01	4822 130 11397	BAS316
6U03	4822 130 11397	BAS316
6U04	4822 130 11397	BAS316
6U05	9322 129 41685	BZM55-C12
6U06	9322 203 37685	BZG05C3V9
6U07	4822 130 11416	PDZ6.8B
6U08	4822 130 80622	BAT54
6U09	4822 130 80622	BAT54
6U10	4822 130 11522	UDZ15B
6U11	4822 130 11397	BAS316
6U12	9340 548 52115	PDZ5.1B
6U13	9340 548 58115	PDZ9.1B
6U14	4822 130 10328	BAV99W
6U14	4822 130 11397	BAS316
6U15	4822 130 11397	BAS316
6U16	9340 548 52115	PDZ5.1B
6U17	4822 130 11416	PDZ6.8B
6V05	9322 085 77685	TLMG3100
6Z00	3198 020 55680	BZX384-C5V6

7001	9352 684 81557	SAA5801H/015
7002	3198 010 42320	BC857BW
7003	3198 010 42310	BC847BW
7004	3198 010 42310	BC847BW
7005	9322 172 45668	LF33ABDT
7006		For SW see item 0601
7007	9322 157 20668	MSM51V18165F-60J
7008	3198 010 42310	BC847BW
7009	3198 010 42310	BC847BW
7010	3198 010 42320	BC857BW
7011	9322 130 41668	M24C64-WMN6
7012	9322 199 93668	M29W400DT-55N6
7013	3198 010 42310	BC847BW
7014	3198 010 42320	BC857BW
7017	9340 310 30215	PDTC144ET
7018	9352 115 40118	74LVC245APW
7019	9352 115 40118	74LVC245APW
7020	3198 010 42310	BC847BW
7021	9340 425 30115	BC847BPN
7022	3198 010 42320	BC857BW
7022	9340 310 30215	PDTC144ET
7320	3198 010 42310	BC847BW
7322	3198 010 42310	BC847BW
7323	9352 625 24518	TDA9321H/N2
7402	3198 010 42310	BC847BW
7403	3198 010 42310	BC847BW
7407	3198 010 42320	BC857BW
7410	3198 010 42310	BC847BW
7411	3198 010 42310	BC847BW
7414	3198 010 42310	BC847BW
7415	3198 010 42310	BC847BW
7701	9322 170 14668	LF15ABDT
7703	3198 010 42310	BC847BW
7705	3198 010 42310	BC847BW
7706	3198 010 70400	74LVC1G14GW
7707	3198 010 42310	BC847BW
7708	3198 010 42310	BC847BW
7709	3198 010 42310	BC847BW
7710	3198 010 42310	BC847BW
7711	2422 486 80938	Socket 32p f PLCC
7711		For SW see item 0605
7712	9351 870 00118	74HC73PW
7713	9352 688 09557	SAA4978H/V204
7714	9965 000 02179	MS81V04160-25TB

7715	4822 209 73852	PMBT2369
7717	4822 209 73852	PMBT2369
7719	9322 206 19672	MSM56V16160F-7T3-FG
7720	9322 207 36702	T6TX5EF-0001
7725	4822 209 73852	PMBT2369
7752	9322 202 21671	T6TU5XB-0001
7753	9322 206 19672	MSM56V16160F-7T3-FG
7760	9352 730 86557	SAA4998H/V1
7772	9322 170 14668	LF15ABDT
7773	9322 179 78668	LF18ABDT
7774	9322 142 88668	LF25CDT
7A00	4822 209 30095	LM833D
7A01	3198 010 42310	BC847BW
7A02	9322 196 03702	MSP3411G-QI-B8V3
7A03	4822 209 30095	LM833D
7A04	4822 130 60373	BC856B
7A06	5322 209 16349	TDA7309D
7A07	9322 183 05668	TS482ID
7A08	9340 425 20115	BC847BS
7A09	4822 130 60373	BC856B
7A10	9340 425 20115	BC847BS
7A31	9340 425 20115	BC847BS
7E01	9322 142 88668	LF25CDT
7E02		For SW see item 0602
7E03	9352 687 21165	74LVC1G126GW
7E04	9352 687 20125	74LVC1G125GW
7E05	9322 170 14668	LF15ABDT
7E10	9352 686 35118	PCA9515DP
7E12	9340 425 20115	BC847BS
7E23	9322 181 72671	AD9883AKST-110
7E24	9322 205 36668	AD9283BRSZ-50
7E25	3198 010 42320	BC857BW
7E26	3198 010 42320	BC857BW
7E27	3198 010 42320	BC857BW
7I01	9340 425 20115	BC847BS
7I02	9340 425 20115	BC847BS
7I03	9340 425 20115	BC847BS
7I04	3198 010 42310	BC847BW
7I05	9340 425 30115	BC847BPN
7I07	4822 130 60142	BC869
7I09	3198 010 42310	BC847BW
7I12	9351 869 40118	74HC4053PW
7I17	9322 116 87668	TEA6422D
7I18	9322 183 61682	SII907BCQ52
7I19		For SW see item 0603
7I20	9351 869 40118	74HC4053PW
7I21	9340 425 30115	BC847BPN
7I22	3198 010 42310	BC847BW
7I23	9340 425 20115	BC847BS
7I26	3198 010 42320	BC857BW
7I27	3198 010 42320	BC857BW
7I28	3198 010 42320	BC857BW
7I29	3198 010 42320	BC857BW
7I30	3198 010 42320	BC857BW
7I31	3198 010 42320	BC857BW
7I32	9351 869 40118	74HC4053PW
7I33	9351 869 40118	74HC4053PW
7I35	3198 010 42310	BC847BW
7I36	3198 010 42310	BC847BW
7I37	3198 010 42320	BC857BW
7I38	3198 010 42310	BC847BW
7I44	9340 425 20115	BC847BS
7I45	4822 130 11155	PDTC114ET
7I49	9340 310 30215	PDTC144ET
7I50	9340 425 30115	BC847BPN
7I51	9340 560 35235	BSH112
7I52	9340 560 35235	BSH112
7I53	9340 425 30115	BC847BPN
7I55	4822 209 12776	TDA8601T/C1
7I55	4822 209 16095	BA7657F
7I56	3198 010 42310	BC847BW
7I56	3198 010 42320	BC857BW
7I57	3198 010 42310	BC847BW
7I57	3198 010 42320	BC857BW
7I58	3198 010 42310	BC847BW
7I58	3198 010 42320	BC857BW
7I62	3198 010 42310	BC847BW
7I64	3198 010 42310	BC847BW
7I71	9340 425 30115	BC847BPN
7L01	9322 181 72671	AD9883AKST-110
7L02	4822 209 17398	LD1117DT33
7P00	3198 010 42310	BC847BW
7P04	3198 010 42320	BC857BW
7P05	3198 010 42310	BC847BW
7P06	3198 010 42310	BC847BW
7P07	9340 425 20115	BC847BS
7P08	3198 010 42310	BC847BW
7P09	9352 625 24518	TDA9321H/N2
7P52	9340 425 20115	BC847BS
7P53	9340 425 10115	BC857BS
7P54	4822 209 12776	TDA8601T/C1
7P54	9322 208 56668	BA7609F
7P55	9350 399 00118	TDA9820T/V1
7P56	4822 209 17345	M62320FP
7P58	9340 425 20115	BC847BS
7P59	9340 425 20115	BC847BS
7P60	9352 690 58125	74LVC1G66GW
7P61	9340 425 20115	BC847BS
7P62	9352 690 58125	74LVC1G66GW
7P63	3198 010 42320	BC857BW
7PA0	3198 010 42310	BC847BW
7PA1	3198 010 42310	BC847BW
7PA2	3198 010 42310	BC847BW
7PA5	3198 010 42310	BC847BW
7PA6	9352 639 83557	SAB9083H/N4
7PA7	3198 010 42310	BC847BW
7PA8	3198 010 42310	BC847BW
7PA9	3198 010 42310	BC847BW
7PB1	9352 683 81115	74LVC1G32GW
7PB2	3198 010 42310	BC847BW
7PB5	3198 010 42310	BC847BW
7PB6	3198 010 42310	BC847BW
7T01	9322 160 70668	SI4936ADY
7T04	9322 182 77668	L6910
7T10	9340 425 20115	BC847BS
7T11	9340 425 30115	BC847BPN
7T12	3198 010 42310	BC847BW
7T13	9340 425 30115	BC847BPN
7U01	4822 130 60373	BC856B
7U02	4822 130 60373	BC856B
7U03	9322 091 04668	SI4410DY
7U04	9322 091 04668	SI4410DY
7U05	3198 010 42320	BC857BW
7U06	9340 425 20115	BC847BS
7U07	9340 425 30115	BC847BPN
7U08	4822 130 42804	BC817-25
7U09	4822 130 42804	BC817-25
7U10	3198 010 42310	BC847BW
7U11	3198 010 42310	BC847BW
7U12	3198 010 42310	BC847BW
7U13	9340 425 30115	BC847BPN
7V01	9322 200 14671	EP1C12F256C8
7V03	9322 206 19672	MSM56V16160F-7T3-FG
7V04	9340 425 20115	BC847BS
7Y01	4822 130 10255	MUN2213
7Y01	9340 310 30215	PDTC144ET
7Y02	3198 010 42320	BC857BW
7Z00	3198 010 42310	BC847BW
7Z01	9322 204 10685	SI3441BDV

Side I/O Panel [D] (FTL2.1E Top)

Various

1001	2422 026 05133	Connector SVHS 4p f
1002	4822 267 10975	Soc. CINCH f YeWhRd
1010	4822 267 31014	Soc. headphone
1M36	2422 025 17179	Connector 11p m

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2003	2022 552 05679	1µF 10% 16V 0805
2004	3198 016 36810	680pF 25V 0603
2005	2020 552 94427	100pF 5% 50V
2006	3198 016 36810	680pF 25V 0603
2007	2020 552 94427	100pF 5% 50V
2008	2238 916 15641	22nF 10% 25V 0603
2009	5322 126 11583	10nF 10% 50V 0603
2010	2238 916 15641	22nF 10% 25V 0603
2011	5322 126 11583	10nF 10% 50V 0603

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3000	4822 051 30759	75Ω 5% 0.062W
3004	4822 051 30759	75Ω 5% 0.062W
3008	4822 051 30222	2.2kΩ 5% 0.062W
3009	4822 051 30102	1kΩ 5% 0.062W
3010	4822 051 30333	33kΩ 5% 0.062W
3011	4822 051 30392	3.9Ω 5% 0.063W 0603
3012	4822 051 30102	1kΩ 5% 0.062W
3013	4822 051 30333	33kΩ 5% 0.062W
3016	4822 051 30103	10kΩ 5% 0.062W
3020	4822 051 30103	10kΩ 5% 0.062W
9004	4822 051 30008	Jumper 0603
9005	4822 051 30008	Jumper 0603
9006	4822 051 30008	Jumper 0603
9007	4822 051 30008	Jumper 0603
9008	4822 051 30008	Jumper 0603
9009	4822 051 30008	Jumper 0603
9010	4822 051 30008	Jumper 0603
9011	4822 051 30008	Jumper 0603

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6000	4822 130 11416	PDZ6.8B
6001	4822 130 11416	PDZ6.8B
6002	4822 130 11416	PDZ6.8B
6003	4822 130 11416	PDZ6.8B
6004	4822 130 11416	PDZ6.8B
6005	4822 130 11416	PDZ6.8B
6006	4822 130 11416	PDZ6.8B
6007	4822 130 11416	PDZ6.8B
6008	4822 130 11416	PDZ6.8B
6009	4822 130 11416	PDZ6.8B
6010	4822 130 11416	PDZ6.8B
6011	4822 130 11416	PDZ6.8B

Top Control Panel [E] (FTL2.1E Top)

Various

0345	2422 025 16544	Connector 6p m
1014	3104 328 28921	Top control 2K4
1701	4822 276 13775	Switch 1p 0.1A 12V
1702	4822 276 13775	Switch 1p 0.1A 12V
1703	4822 276 13775	Switch 1p 0.1A 12V
1704	4822 276 13775	Switch 1p 0.1A 12V
1705	4822 276 13775	Switch 1p 0.1A 12V
1710	4822 276 14007	Switch 2p 0.1A 12V
8345	3104 311 07041	Cable 6P/1000/6P

-WW-

3008	4822 117 10845	620Ω 1% 0.1W
3010	4822 117 11534	1.1kΩ 1% 0.1W
3011	4822 117 11951	2kΩ 1% 0.1W
3013	4822 117 13528	200Ω 1% 0.125W 0805
3014	3198 031 03910	390Ω 1% 0402
3017	4822 051 30339	33Ω 5% 0.062W
3018	4822 051 30339	33Ω 5% 0.062W
3019	4822 051 30339	33Ω 5% 0.062W
3020	4822 051 30339	33Ω 5% 0.062W
3021	4822 051 30339	33Ω 5% 0.062W
3022	4822 051 30339	33Ω 5% 0.062W
3023	4822 051 30339	33Ω 5% 0.062W
3024	4822 051 30339	33Ω 5% 0.062W
3025	4822 051 30339	33Ω 5% 0.062W
3026	4822 051 30339	33Ω 5% 0.062W
3027	4822 051 30339	33Ω 5% 0.062W
3028	4822 051 30339	33Ω 5% 0.062W
3999	4822 117 13602	2.2kΩ 5% 0.01W 0402
9000	4822 117 13605	Jumper 0402

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6001	9322 198 19685	SML512BC2T
6002	9322 198 19685	SML512BC2T
6003	9322 198 19685	SML512BC2T
6004	9322 198 19685	SML512BC2T
6005	9322 198 19685	SML512BC2T
6006	9322 198 19685	SML512BC2T
6007	9322 198 19685	SML512BC2T
6008	9322 198 19685	SML512BC2T
6009	9322 198 19685	SML512BC2T
6010	9322 198 19685	SML512BC2T
6011	9322 198 19685	SML512BC2T
6012	9322 198 19685	SML512BC2T

SCART3 Panel [H] (FTL2.1E Top)

Various

1003	2422 025 14911	Socket Euro 21p f
1M07	4822 267 10637	Connector 5p
1M36	2422 025 10655	Connector 11p m
1M37	2422 025 10655	Connector 11p m

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2500	2022 552 05679	1µF 10% 16V 0805
2501	2020 552 94427	100pF 5% 50V
2502	2022 552 05679	1µF 10% 16V 0805
2503	2020 552 94427	100pF 5% 50V
2504	2022 552 05679	1µF 10% 16V 0805
2505	2022 552 05679	1µF 10% 16V 0805
2506	2238 586 59812	100nF 20% 50V 0603
2507	5322 126 11578	1nF 10% 50V 0603

2508	2022 552 05679	1µF 10% 16V 0805
2509	2238 586 59812	100nF 20% 50V 0603
2510	4822 126 14241	330pF 0603 50V
2511	2238 586 59812	100nF 20% 50V 0603
2512	2238 586 59812	100nF 20% 50V 0603
2513	2238 586 59812	100nF 20% 50V 0603
2515	2022 552 05679	1µF 10% 16V 0805
2516	2022 552 05679	1µF 10% 16V 0805
2517	2022 552 05679	1µF 10% 16V 0805

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3500	4822 051 30101	100Ω 5% 0.062W
3501	4822 051 30101	100Ω 5% 0.062W
3502	4822 051 30223	22kΩ 5% 0.062W
3503	4822 051 30101	100Ω 5% 0.062W
3504	4822 051 30101	100Ω 5% 0.062W
3505	4822 051 30223	22kΩ 5% 0.062W
3506	4822 051 30759	75Ω 5% 0.062W
3507	4822 051 30759	75Ω 5% 0.062W
3508	4822 051 30759	75Ω 5% 0.062W
3509	4822 051 30101	100Ω 5% 0.062W
3510	4822 051 30759	75Ω 5% 0.062W
3511	4822 051 30479	47Ω 5% 0.062W
3512	4822 051 30479	47Ω 5% 0.062W
3513	4822 051 30479	47Ω 5% 0.062W
3514	4822 051 30479	47Ω 5% 0.062W
3515	4822 051 30479	47Ω 5% 0.062W
3516	4822 051 30479	47Ω 5% 0.062W
3517	4822 117 12925	47kΩ 1% 0.063W 0603
3522	4822 051 30272	2.7kΩ 5% 0.062W
3523	4822 051 30223	22kΩ 5% 0.062W
3524	4822 051 30479	47Ω 5% 0.062W
3525	4822 051 30102	1kΩ 5% 0.062W
3526	5322 117 13056	8.2kΩ 1% 0.063W 0603
3527	4822 051 30683	68kΩ 5% 0.062W
3528	4822 051 30223	22kΩ 5% 0.062W
3529	4822 051 30102	1kΩ 5% 0.062W
3535	4822 051 30479	47Ω 5% 0.062W
3536	4822 051 30103	10kΩ 5% 0.062W
3543	4822 051 30759	75Ω 5% 0.062W
3599	4822 051 30102	1kΩ 5% 0.062W
3999	4822 051 30102	1kΩ 5% 0.062W
9502	4822 051 30008	Jumper 0603
9508	4822 051 30008	Jumper 0603
9509	3198 036 90010	Wire 0.58mm
9510	3198 036 90010	Wire 0.58mm
9511	3198 036 90010	Wire 0.58mm
9512	3198 036 90010	Wire 0.58mm
9513	3198 036 90010	Wire 0.58mm
9514	3198 036 90010	Wire 0.58mm
9515	3198 036 90010	Wire 0.58mm
9521	4822 051 30008	Jumper 0603
9523	3198 036 90010	Wire 0.58mm
9524	4822 051 30008	Jumper 0603
9525	3198 036 90010	Wire 0.58mm
9526	3198 036 90010	Wire 0.58mm

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6500	4822 130 11416	PDZ6.8B
6501	4822 130 11416	PDZ6.8B
6502	4822 130 11416	PDZ6.8B
6503	4822 130 11416	PDZ6.8B
6504	4822 130 11397	BAS316
6505	4822 130 11416	PDZ6.8B
6506	4822 130 11416	PDZ6.8B
6507	9322 129 41685	BZM55-C12
6508	4822 130 11551	UDZS10B

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7501	3198 010 42310	BC847BW
7502	3198 010 42310	BC847BW
7515	9351 869 40118	74HC4053PW
7516	9351 869 40118	74HC4053PW

LED/Switch Panel [J] (FTL2.1E Top)

Various

0075	3104 317 06821	SW (see Prod. Survey)
0164	3122 358 76351	LED holder IR
0345	2422 025 16961	Connector 6p m SMD
0350	2422 025 16966	Connector 5p m SMD
1020	2422 543 01431	Xtal 20MHz 16pF
1M01	2422 025 17103	Connector 3p m SMD
1M20	2422 025 17441	Connector 12p m

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2020	3198 034 01590	15pF 1% 50V 0402
2021	2238 586 59812	100nF 20% 50V 0603
2022	2238 780 15654	220nF 10% 16V 0805
2023	3198 034 01590	15pF 1% 50V 0402
2030	4822 124 23002	10µF 16V
2040	4822 124 12095	100µF 20% 16V
2060	5322 124 41945	22µF 20% 35V
2070	4822 126 14583	470nF 10% 16V 0805
2071	4822 124 23002	10µF 16V

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3010	4822 117 13545	100Ω 1% 0402
3011	4822 117 13545	100Ω 1% 0402
3021	4822 117 13602	2.2kΩ 5% 0.01W 0402
3022	2322 702 60568	5.6Ω 5% 0603
3022	4822 051 30759	75Ω 5% 0.062W
3023	4822 117 12925	47kΩ 1% 0.063W 0603
3024	3198 031 03320	3.3kΩ 5% 0402
3025	4822 117 13606	10kΩ 5% 0.01W 0402
3026	4822 117 13606	10kΩ 5% 0.01W 0402
3027	4822 117 13596	220Ω 5% 0.01W 0402
3028	4822 117 13606	10kΩ 5% 0.01W 0402
3029	4822 117 13606	10kΩ 5% 0.01W 0402
3030	3198 031 04720	4.7kΩ 5% 0402
3031	4822 117 12889	270kΩ 1% 0.063W 0603
3031	4822 117 13632	100kΩ 1% 0603 0.62W
3032	2322 705 70184	180Ω 5% 0402
3033	4822 051 30102	1kΩ 5% 0.062W
3034	4822 117 13548	1kΩ 5% 0402
3035	3198 031 04720	4.7kΩ 5% 0402
3036	3198 031 02280	2.2Ω 5% 0.1W 0402
3037	3198 031 02280	2.2Ω 5% 0.1W 0402
3040	4822 117 13597	330Ω 5% 0402 0.01W
3041	4822 117 13606	10kΩ 5% 0.01W 0402
3042	3198 031 06820	6.8kΩ 5% 0.01W 0402
3051	4822 117 13597	330Ω 5% 0402 0.01W
3060	4822 117 13606	10kΩ 5% 0.01W 0402
3061	4822 051 30331	330Ω 5% 0.062W
3062	4822 117 11373	100Ω 1% 0805
3063	4822 117 13606	10kΩ 5% 0.01W 0402
3064	4822 117 11373	100Ω 1% 0805
3070	2322 705 70475	4.7MΩ 5% 0402
3071	2322 705 70475	4.7MΩ 5% 0402
3072	4822 117 13548	1kΩ 5% 0402
3073	3198 031 03320	3.3kΩ 5% 0402
3074	4822 117 13606	10kΩ 5% 0.01W 0402
3075	3198 031 04720	4.7kΩ 5% 0402
3078	3198 031 03320	3.3kΩ 5% 0402
3079	3198 031 03320	3.3kΩ 5% 0402
3081	4822 117 13545	100Ω 1% 0402
3088	4822 117 13545	100Ω 1% 0402
3090	4822 117 13545	100Ω 1% 0402
3999	4822 117 13606	10kΩ 5% 0.01W 0402
9013	4822 117 13605	Jumper 0402
9019	4822 117 13605	Jumper 0402
9022	4822 051 30008	Jumper 0603
9024	4822 051 30008	Jumper 0603
9026	4822 117 13605	Jumper 0402
9027	4822 117 13605	Jumper 0402
9040	4822 117 13605	Jumper 0402
9043	4822 117 13605	Jumper 0402

∼

5020	2422 549 43062	Bead 600Ω at 100MHz

⊳|

6030	4822 130 11397	BAS316
6031	4822 130 11397	BAS316
6051	4822 130 83915	TLMV3100
6060	9322 198 19685	SML512BC2T
6061	4822 130 11397	BAS316
6070	9322 140 63685	TEMD5000
6080	9322 127 27676	TSAL5300

⊲▭

7020	9340 218 60115	BC857CW
7021	9340 218 60115	BC857CW
7030	3198 010 42320	BC857BW
7031	5322 130 62804	BCP53
7032	3198 010 42310	BC847BW
7060	3198 010 42310	BC847BW
7061	3198 010 42310	BC847BW
7070	9322 192 63668	LM358P
7075		For SW see item 0075

Proximity Sensor Panel [PR] (FTL2.1E Top)

Various

0350	4822 267 10596	Connector 5p
1040	9322 206 81667	TSOP34836YA1

⊣⊢

2021	4822 124 41584	100µF 20% 10V
2022	2238 780 15654	220nF 10% 16V 0805
2040	4822 124 41584	100µF 20% 10V

-WW-

3010	4822 051 30101	100Ω 5% 0.062W
3021	4822 051 30222	2.2kΩ 5% 0.062W
3022	2322 702 60568	5.6Ω 5% 0603
3022	4822 051 30759	75Ω 5% 0.062W
3023	4822 117 12925	47kΩ 1% 0.063W 0603
3024	4822 051 30332	3.3Ω 5% 0.062W
3040	4822 051 30331	330Ω 5% 0.062W
3041	4822 051 30103	10kΩ 5% 0.062W
3042	4822 051 30682	6.8Ω 5% 0.062W
9040	4822 051 30008	Jumper 0603
9043	4822 051 30008	Jumper 0603

⊳|

6020	9322 127 27676	TSAL5300

⊲▭

7020	9340 218 60115	BC857CW
7021	9340 218 60115	BC857CW

Stand-by Supply/Audio Panel [SA] (FTL2.1E Top)

Various

1303	2422 025 04475	Connector 4p m
1303	2422 025 10647	Connector 4p m
1304	2422 025 10647	Connector 4p m
1305	4822 267 10735	Connector 3p
1306	2422 025 16374	Connector 2p m
1307	2422 025 10647	Connector 4p m
1309	2422 025 04475	Connector 4p m
1309	2422 025 11143	Connector 3p m
1314	2422 025 10771	Connector 10p m
1315	2422 025 10771	Connector 10p m
1316	2422 025 10772	Connector 12p m
1317	2422 025 10772	Connector 12p m
1318	2422 025 08149	Connector 6p m
1320	2422 025 04475	Connector 4p m
1320	2422 025 11143	Connector 3p m
1735	2422 025 10768	Connector 3p m
1736	2422 025 10768	Connector 3p m
1738	2422 025 10768	Connector 3p m
1739	2422 025 10769	Connector 9p m
1M02	2422 025 11244	Connector 7p m
1M03	2422 025 10771	Connector 10p m
1M10	2422 025 09406	Connector 4p m
1M46	2422 025 10655	Connector 11p m

⊣⊢

2101	4822 121 51598	2.2nF 5% 400V
2102	4822 124 40207	100µF 20% 25V
2103	2020 552 94427	100pF 5% 50V
2105	2020 552 94427	100pF 5% 50V
2107	2020 024 90718	10µF 20% 450V
2108	2020 024 90718	10µF 20% 450V
2109	2022 552 05679	1µF 10% 16V 0805
2110	2022 552 05679	1µF 10% 16V 0805
2111	4822 121 43526	47nF 5% 250V
2112	5322 126 11583	10nF 10% 50V 0603
2123	2238 586 59812	100nF 20% 50V 0603
2124	4822 124 40248	10µF 20% 63V
2129	5322 126 11578	1nF 10% 50V 0603
2131	2238 586 15641	22nF 10% 50V 0603
2132	4822 124 40207	100µF 20% 25V
2140	4822 124 40248	10µF 20% 63V
2141	4822 126 14583	470nF 10% 16V 0805
2144	2022 552 05679	1µF 10% 16V 0805

2145	4822 126 13881	470pF 5% 50V
2149	2022 552 05679	1µF 10% 16V 0805
2150	4822 124 12379	220µF 25V
2152	4822 121 70162	10nF 5% 400V
2153	5322 126 11582	6.8nF 10% 63V
2154	3198 017 31530	15nF 20% 50V 0603
2160	4822 124 21913	1µF 20% 63V
2163	4822 124 40207	100µF 20% 25V
2506	2252 811 95017	470pF 10% 250V
2507	4822 126 13682	100pF 5% 1kV
2508	4822 124 40764	22µF 100V
2510	2020 021 91668	2200µF 20% 10V
2511	4822 124 12379	220µF 25V
2512	4822 124 12379	220µF 25V
2513	4822 126 10206	2.2nF 10% 500V
2515	4822 126 14238	2.2nF 50V 0603
2533	4822 124 40207	100µF 20% 25V
2534	2020 552 96448	1µF 10% 16V 0805
2535	5322 126 11583	10nF 10% 50V 0603
2536	5322 126 11583	10nF 10% 50V 0603
2537	4822 126 14238	2.2nF 50V 0603
2538	5322 126 11583	10nF 10% 50V 0603
2539	2020 552 96448	1µF 10% 16V 0805
2539	4822 126 14583	470nF 10% 16V 0805
2540	5322 126 11583	10nF 10% 50V 0603
2544	5322 126 11583	10nF 10% 50V 0603
2702	5322 126 11578	1nF 10% 50V 0603
2704	5322 126 11578	1nF 10% 50V 0603
2705	2020 552 96684	470nF 10% 25V 0805
2706	2222 580 15649	100nF 10% 50V 0805
2707	4822 126 14585	100nF 10% 0805 50V
2708	2020 552 96326	220nF 10% 16V
2709	4822 126 13881	470pF 5% 50V
2710	4822 126 13881	470pF 5% 50V
2711	5322 126 11578	1nF 10% 50V 0603
2712	2020 552 96683	220nF 10% 50V
2713	2020 552 96684	470nF 10% 25V 0805
2714	4822 126 14549	33nF 16V 0603
2715	5322 126 11578	1nF 10% 50V 0603
2716	4822 126 14241	330pF 0603 50V
2717	5322 121 42498	680nF 5% 63V
2718	4822 122 33761	22pF 5% 50V
2719	5322 126 11578	1nF 10% 50V 0603
2720	2020 552 96326	220nF 10% 16V
2721	4822 126 13881	470pF 5% 50V
2722	4822 126 13881	470pF 5% 50V
2723	5322 126 11578	1nF 10% 50V 0603
2726	4822 126 14549	33nF 16V 0603
2727	5322 126 11578	1nF 10% 50V 0603
2728	4822 126 14241	330pF 0603 50V
2729	5322 121 42498	680nF 5% 63V
2741	4822 122 33761	22pF 5% 50V
2743	4822 126 12105	33nF 5% 50V 0805
2753	2020 552 96326	220nF 10% 16V
2754	4822 126 14491	2.2µF 10V 0805
2755	5322 126 11578	1nF 10% 50V 0603
2756	4822 126 13881	470pF 5% 50V
2758	5322 121 42498	680nF 5% 63V
2759	5322 126 10511	1nF 5% 50V
2762	2020 552 96326	220nF 10% 16V
2764	4822 126 14491	2.2µF 10V 0805
2766	4822 126 14491	2.2µF 10V 0805
2768	4822 124 40255	100µF 20% 63V
2769	4822 124 40255	100µF 20% 63V
2777	2020 552 96683	220nF 10% 50V
2778	4822 124 40769	4.7µF 20% 100V
2779	2020 552 96683	220nF 10% 50V
2780	2020 552 96683	220nF 10% 50V
2781	2020 552 96683	220nF 10% 50V
2782	2020 552 96683	220nF 10% 50V
2783	4822 124 41751	47µF 20% 50V
2784	2020 552 96683	220nF 10% 50V
2786	2238 586 15641	22nF 10% 50V 0603
2788	4822 124 40255	100µF 20% 63V
2789	2020 552 96683	220nF 10% 50V
2790	4822 124 40255	100µF 20% 63V
2791	2022 552 05679	1µF 10% 16V 0805
2792	2022 552 05679	1µF 10% 16V 0805
2793	4822 124 40255	100µF 20% 63V
2794	2022 552 05679	1µF 10% 16V 0805
2795	2020 552 96683	220nF 10% 50V
2796	2022 552 05679	1µF 10% 16V 0805
2797	4822 126 14076	220nF +80/-20% 25V
2798	4822 126 14076	220nF +80/-20% 25V
2799	4822 124 40255	100µF 20% 63V

3100	4822 051 30101	100Ω 5% 0.062W
3101	4822 053 20475	4.7MΩ 5% 0.25W
3102	2312 915 11002	1kΩ 1% 0.5W
3103	2312 915 11002	1kΩ 1% 0.5W
3104	4822 051 30479	47Ω 5% 0.062W
3105	4822 051 30221	220Ω 5% 0.062W
3106	4822 051 30391	390Ω 5% 0.062W
3107	4822 051 30391	390Ω 5% 0.062W
3108	4822 053 10478	4.7Ω 5% 1W
3109	4822 051 30391	390Ω 5% 0.062W
3110	4822 051 30391	390Ω 5% 0.062W
3111	4822 053 10152	1.5kΩ 5% 1W
3112	4822 051 30391	390Ω 5% 0.062W
3113	9965 000 23109	22Ω 5% 0603
3114	4822 051 30221	220Ω 5% 0.062W
3117	4822 051 30479	47Ω 5% 0.062W
3121	4822 051 30109	10Ω 5% 0.062W
3122	4822 051 30471	47Ω 5% 0.062W
3123	4822 051 30109	10Ω 5% 0.062W
3124	4822 051 30339	33Ω 5% 0.062W
3125	4822 117 12971	15Ω 5% 0603 0.62W
3126	4822 051 30103	10kΩ 5% 0.062W
3127	4822 051 30562	5.6kΩ 5% 0.063W 0603
3128	4822 117 13608	4.7Ω 5% 0603 0.62W
3132	4822 051 30333	33kΩ 5% 0.062W
3134	4822 051 30102	1kΩ 5% 0.062W
3135	4822 051 30331	330Ω 5% 0.062W
3138	4822 051 30105	1MΩ 5% 0.062W
3140	4822 051 30223	22kΩ 5% 0.062W
3141	4822 051 30471	47Ω 5% 0.062W
3142	4822 051 30123	12kΩ 5% 0.1W
3145	4822 051 30472	4.7Ω 5% 0.062W
3146	4822 051 30479	47Ω 5% 0.062W
3147	4822 051 30223	22kΩ 5% 0.062W
3148	4822 051 30479	47Ω 5% 0.062W
3149	4822 051 30103	10kΩ 5% 0.062W
3150	4822 051 30101	100Ω 5% 0.062W
3152	4822 051 30102	1kΩ 5% 0.062W
3153	4822 051 30223	22kΩ 5% 0.062W
3155	4822 050 21003	10kΩ 1% 0.6W
3156	4822 051 30102	1kΩ 5% 0.062W
3157	4822 051 30223	22kΩ 5% 0.062W
3158	4822 051 30479	47Ω 5% 0.062W
3159	4822 051 30479	47Ω 5% 0.062W
3160	4822 051 30102	1kΩ 5% 0.062W
3161	4822 051 30123	12kΩ 5% 0.1W
3171	4822 051 30101	100Ω 5% 0.062W
3172	4822 051 30333	33kΩ 5% 0.062W
3175	4822 051 30103	10kΩ 5% 0.062W
3176	4822 051 30103	10kΩ 5% 0.062W
3190	4822 050 22702	2.7kΩ 1% 0.6W
3190	4822 053 10122	1.2kΩ 5% 1W
3191	4822 050 22702	2.7kΩ 1% 0.6W
3191	4822 053 10122	1.2kΩ 5% 1W
3192	4822 050 22702	2.7kΩ 1% 0.6W
3192	4822 053 10122	1.2kΩ 5% 1W
3509	4822 053 10222	2.2kΩ 5% 1W
3511	4822 051 30683	68kΩ 5% 0.062W
3512	4822 051 30471	47Ω 5% 0.062W
3513	4822 051 30333	33kΩ 5% 0.062W
3515	4822 117 13632	100kΩ 1% 0603 0.62W
3516	4822 051 30472	4.7Ω 5% 0.062W
3517	4822 051 30223	22kΩ 5% 0.062W
3528	4822 051 30472	4.7Ω 5% 0.062W
3529	4822 051 30101	100Ω 5% 0.062W
3530	4822 051 30223	22kΩ 5% 0.062W
3531	4822 051 30153	15kΩ 5% 0.062W
3532	4822 051 30472	4.7Ω 5% 0.062W
3533	4822 051 30152	1.5Ω 5% 0.062W
3534	4822 051 30103	10kΩ 5% 0.062W
3538	4822 051 30101	100Ω 5% 0.062W
3539	4822 051 30471	47Ω 5% 0.062W
3540	4822 051 30222	2.2kΩ 5% 0.062W
3541	4822 051 30222	2.2kΩ 5% 0.062W
3542	4822 051 30103	10kΩ 5% 0.062W
3544	4822 051 30221	220Ω 5% 0.062W
3560	4822 051 30682	6.8Ω 5% 0.062W
3561	4822 051 30392	3.9Ω 5% 0.063W 0603
3562	4822 117 13608	4.7Ω 5% 0603 0.62W
3701	4822 051 30103	10kΩ 5% 0.062W
3702	4822 051 30103	10kΩ 5% 0.062W
3702	4822 051 30682	6.8Ω 5% 0.062W
3703	4822 051 30333	33kΩ 5% 0.062W
3704	4822 117 10833	10kΩ 1% 0.1W
3705	4822 051 20828	8.2Ω 5% 0.1W
3706	4822 051 30472	4.7Ω 5% 0.062W
3707	4822 051 30683	68kΩ 5% 0.062W
3708	4822 051 30563	56kΩ 5% 0.062W
3709	4822 117 11503	220Ω 1% 0.1W
3710	4822 051 30223	22kΩ 5% 0.062W
3711	4822 050 21204	120kΩ 1% 0.6W
3712	4822 051 30103	10kΩ 5% 0.062W
3713	2312 915 11202	1.2kΩ 1% 0.5W
3714	4822 117 12925	47kΩ 1% 0.063W 0603
3715	4822 117 12925	47kΩ 1% 0.063W 0603
3716	4822 117 12925	47kΩ 1% 0.063W 0603
3717	4822 117 13632	100kΩ 1% 0603 0.62W
3718	4822 117 13632	100kΩ 1% 0603 0.62W
3720	4822 117 11503	220Ω 1% 0.1W
3721	4822 051 30472	4.7Ω 5% 0.062W
3722	4822 051 30683	68kΩ 5% 0.062W
3723	4822 051 30563	56kΩ 5% 0.062W
3724	4822 117 11503	220Ω 1% 0.1W
3725	4822 051 30223	22kΩ 5% 0.062W
3726	4822 117 11503	220Ω 1% 0.1W
3727	4822 117 11503	220Ω 1% 0.1W
3729	4822 117 10837	100kΩ 1% 0.1W
3730	4822 117 11503	220Ω 1% 0.1W
3741	4822 051 30103	10kΩ 5% 0.062W
3743	4822 117 11449	2.2kΩ 5% 0.1W 0805
3744	4822 117 13632	100kΩ 1% 0603 0.62W
3746	4822 051 30223	22kΩ 5% 0.062W
3747	4822 117 12925	47kΩ 1% 0.063W 0603
3748	4822 051 30471	47Ω 5% 0.062W
3749	4822 051 30471	47Ω 5% 0.062W
3750	4822 117 11449	2.2kΩ 5% 0.1W 0805
3751	4822 117 11449	2.2kΩ 5% 0.1W 0805
3752	4822 051 30331	330Ω 5% 0.062W
3753	4822 117 11449	2.2kΩ 5% 0.1W 0805
3754	4822 051 30223	22kΩ 5% 0.062W
3755	4822 051 30471	47Ω 5% 0.062W
3756	4822 117 11449	2.2kΩ 5% 0.1W 0805
3757	4822 117 11449	2.2kΩ 5% 0.1W 0805
3758	5322 117 13056	8.2kΩ 1% 0.063W 0603
3759	4822 051 30332	3.3Ω 5% 0.062W
3760	4822 051 30332	3.3Ω 5% 0.062W
3761	4822 051 20109	10Ω 5% 0.1W
3762	4822 051 30222	2.2kΩ 5% 0.062W
3763	4822 051 30222	2.2kΩ 5% 0.062W
3764	4822 051 20109	10Ω 5% 0.1W
3765	4822 117 13632	100kΩ 1% 0603 0.62W
3766	4822 117 13632	100kΩ 1% 0603 0.62W
3767	4822 117 13632	100kΩ 1% 0603 0.62W
3768	4822 117 13632	100kΩ 1% 0603 0.62W
3790	4822 051 30272	2.7kΩ 5% 0.062W
3791	4822 051 30272	2.7kΩ 5% 0.062W
3792	4822 051 30103	10kΩ 5% 0.062W
3793	4822 051 30103	10kΩ 5% 0.062W
3794	4822 051 30103	10kΩ 5% 0.062W
3796	4822 051 30272	2.7kΩ 5% 0.062W
3798	4822 051 30153	15kΩ 5% 0.062W
3999	4822 051 30102	1kΩ 5% 0.062W
3999	4822 051 30682	6.8Ω 5% 0.062W
9020	4822 051 30008	Jumper 0603
9110	4822 051 30008	Jumper 0603
9717	4822 051 30008	Jumper 0603
9737	4822 051 30008	Jumper 0603

5102	4822 526 10704	Bead 50 Ω at 100MHz
5103	4822 526 10704	Bead 50 Ω at 100MHz
5104	4822 157 11411	Bead 80Ω at 100MHz
5105	4822 157 11716	Bead 30Ω at 100MHz
5106	3198 018 31090	10µH 10% 0805
5108	4822 526 10704	Bead 50 Ω at 100MHz
5110	4822 157 71736	10µH 5%
5500▲	3104 308 21181	Transf. BS25320-00
5504	2422 536 00776	33µH 10%
5505	4822 157 11411	Bead 80Ω at 100MHz
5506	4822 157 11411	Bead 80Ω at 100MHz
5507	2422 536 00433	15µH 10%
5508	2422 536 00433	15µH 10%
5701	2422 536 00385	68µH 10%
5701	2422 536 00685	68µF 10%
5702	2422 536 00385	68µH 10%
5702	2422 536 00685	68µF 10%
5703	4822 157 11716	Bead 30Ω at 100MHz
5704	4822 157 11411	Bead 80Ω at 100MHz
5707	4822 157 11411	Bead 80Ω at 100MHz
5708	4822 157 11411	Bead 80Ω at 100MHz
5711	4822 157 11411	Bead 80Ω at 100MHz
5712	4822 157 11411	Bead 80Ω at 100MHz
5720	2422 536 00385	68µH 10%
5720	2422 536 00685	68µF 10%
5722	4822 157 11411	Bead 80Ω at 100MHz
5723	4822 157 11411	Bead 80Ω at 100MHz

6103	4822 130 10871	SBYV27-200
6104	9340 548 69115	PDZ27B
6105	4822 130 11522	UDZ15B
6106	9340 548 66115	PDZ20B
6108	4822 130 80622	BAT54
6114	4822 130 10871	SBYV27-200
6115	4822 130 80622	BAT54
6116	3198 020 55680	BZX384-C5V6
6120	4822 130 11397	BAS316
6121	4822 130 11397	BAS316
6122	9322 129 34685	BZM55-C3V9

6130	9322 129 41685	BZM55-C12
6132	4822 130 11416	PDZ6.8B
6133	4822 130 11397	BAS316
6134	4822 130 11397	BAS316
6140	4822 130 41487	BYV95C
6142	4822 130 80622	BAT54
6144	4822 130 11397	BAS316
6147	9322 200 23685	SML4736
6148	4822 130 11397	BAS316
6149	3198 020 55680	BZX384-C5V6
6150	9340 292 50135	BZG03-C200
6151	9340 548 71115	PDZ33B
6153	9340 292 50135	BZG03-C200
6156	4822 130 11397	BAS316
6504	9340 418 70133	BYV27-600
6505	9322 161 78682	SB360L-7024
6511	9322 129 41685	BZM55-C12
6531	4822 130 11522	UDZ15B
6532	4822 130 11397	BAS316
6540	4822 130 80622	BAT54
6562	9340 548 67115	PDZ22B
6701	4822 130 11397	BAS316
6702	4822 130 11551	UDZS10B
6703	4822 130 11551	UDZS10B
6710	4822 130 11551	UDZS10B
6711	4822 130 11551	UDZS10B

7100	3198 010 42320	BC857BW
7101	9340 219 30115	BC817-25W
7102	9322 160 34687	FQPF3N60
7102	9322 194 27687	STP3NK60ZFP
7105	3198 010 42320	BC857BW
7131	9340 557 69127	PHX9NQ20T
7140	3198 010 42310	BC847BW
7150▲	9322 149 04682	TCET1102
7501▲	9322 149 04682	TCET1102
7505	3198 010 42320	BC857BW
7506	3198 010 42310	BC847BW
7507	3198 010 42310	BC847BW
7509	3198 010 42310	BC847BW
7511	9337 331 10215	BST82
7512	9340 422 80115	PMSTA42
7531	9340 436 50115	BSP030
7532	3198 010 42310	BC847BW
7560	9340 219 30115	BC817-25W
7700	9322 163 86682	TDA7490L
7701	3198 010 42310	BC847BW
7701	5322 130 60159	BC846B
7702	9322 147 23682	TDA7481
7703	3198 010 42310	BC847BW
7703	5322 130 60159	BC846B
7704	3198 010 42310	BC847BW
7704	5322 130 60159	BC846B
7705	3198 010 42310	BC847BW
7705	5322 130 60159	BC846B
7706	3198 010 42320	BC857BW
7706	4822 130 60373	BC856B
7707	3198 010 42310	BC847BW
7707	5322 130 60159	BC846B
7708	3198 010 42310	BC847BW
7708	5322 130 60159	BC846B
7709	3198 010 42310	BC847BW
7709	5322 130 60159	BC846B
7710	3198 010 42310	BC847BW
7710	5322 130 60159	BC846B
7711	3198 010 42310	BC847BW
7711	5322 130 60159	BC846B
7712	5322 130 60159	BC846B
7713	4822 130 60373	BC856B
7715	4822 209 30095	LM833D

Set Level (FTL2.2E Wrap)

Various

1004▲	9322 209 35682	LQ315T3LZ13 (Sharp)
1004	9322 217 44682	LC320W01-A6K1 (LPL)
8206	3104 311 08361	Cable 2P3/400/2P3
8302	3104 311 04721	Cable 7P/680/7P
8304	3104 311 08281	Cable 4P/480/4P
8305	3104 311 08431	Cable 3P/480/3P
8307	3104 311 08381	Cable 4P/400/4P
8309	3104 311 08311	Cable 3P/480/4P
8314	3104 311 08531	Cable 10P/820/10P
8315	3104 311 08531	Cable 10P/820/10P
8318	3104 311 06841	Cable 6P/820/6P
8350	3104 311 08901	Cable 31P/230/30P
8735	3104 311 08601	Cable 2P3/820/2xPOSI
8736	3104 311 07551	Cable 2p3/1600/2p

MF Supply Panel [A] (FTL2.2E Wrap)

Various

1007▲	4822 071 55002	Fuse T5A 250V
1304	2422 025 10647	Connector 4p m
1305	4822 267 10735	Connector 3p
1306	2422 025 16374	Connector 2p m
1307	2422 025 10647	Connector 4p m
1308	4822 265 20723	Connector 2p
1309	2422 025 11143	Connector 3p m
1400▲	4822 253 50145	Fuse 3.15A T
1402	4822 252 60151	Surge protect
1410	4822 265 11253	Fuse holder
1411	4822 265 11253	Fuse holder
1450▲	2422 132 07411	Relay 1p 5V 5A
1M02	2422 025 11244	Connector 7p m

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2000▲	2252 811 95022	1.5nF 20% 250V
2002▲	4822 124 11767	470µF 20% 25V
2003▲	4822 124 80061	1000µF 20% 25V
2007▲	4822 126 14583	470nF 10% 16V 0805
2008▲	4822 126 14583	470nF 10% 16V 0805
2009▲	2238 867 18101	100pF 1% 50V 0603
2010▲	4822 124 40207	100µF 20% 25V
2011	2222 375 90161	18nF 1.6kV 5%
2012▲	4822 126 13862	1.5nF 10% 2kV
2013▲	4822 126 13862	1.5nF 10% 2kV
2014▲	4822 126 13451	2.2nF 10% 2kV
2015▲	5322 126 11583	10nF 10% 50V 0603
2016▲	2238 586 59812	100nF 20% 50V 0603
2017	2222 375 90161	18nF 1.6kV 5%
2019	5322 126 11583	10nF 10% 50V 0603
2020	2020 021 00012	2200µF 20% 16V
2021	2020 021 00012	2200µF 20% 16V
2022	4822 124 81168	2200 µF 20% 35V
2023	4822 126 14583	470nF 10% 16V 0805
2024	2020 552 96326	220nF 10% 16V
2025	2020 552 96683	220nF 10% 50V
2026	4822 126 14238	2.2nF 50V 0603
2028	5322 126 11578	1nF 10% 50V 0603
2029	5322 126 11578	1nF 10% 50V 0603
2033	2020 552 96683	220nF 10% 50V
2034	2238 867 18101	100pF 1% 50V 0603
2035	2238 867 18101	100pF 1% 50V 0603
2036	4822 126 14583	470nF 10% 16V 0805
2037	4822 126 14583	470nF 10% 16V 0805
2038	4822 124 81168	2200 µF 20% 35V
2039	4822 126 14583	470nF 10% 16V 0805
2040	4822 126 14249	560pF 10% 50V 0603
2041	2020 552 96683	220nF 10% 50V
2042	2020 552 96683	220nF 10% 50V
2043	2020 552 96683	220nF 10% 50V
2044	5322 126 11578	1nF 10% 50V 0603
2045	5322 126 11578	1nF 10% 50V 0603
2046	3198 017 34730	47nF 16V 0603
2047	5322 126 11583	10nF 10% 50V 0603
2048	5322 126 11578	1nF 10% 50V 0603
2050	5322 126 11578	1nF 10% 50V 0603
2051	2020 552 96683	220nF 10% 50V
2052	2020 552 96683	220nF 10% 50V
2053	2020 552 96683	220nF 10% 50V
2060	4822 126 14238	2.2nF 50V 0603
2061	4822 126 14238	2.2nF 50V 0603
2062	4822 126 14238	2.2nF 50V 0603
2063	4822 126 13881	470pF 5% 50V
2064	4822 126 13881	470pF 5% 50V
2065	4822 126 14238	2.2nF 50V 0603
2071	5322 126 11578	1nF 10% 50V 0603
2072	5322 126 11578	1nF 10% 50V 0603
2077	4822 126 14238	2.2nF 50V 0603
2290	5322 126 11583	10nF 10% 50V 0603
2291	4822 126 13881	470pF 5% 50V
2292	4822 124 12417	2200µF 20% 25V
2293	4822 126 13881	470pF 5% 50V
2294	4822 124 12417	2200µF 20% 25V
2400	2222 338 22474	470nF 20% 275V
2407	2252 811 95017	470pF 10% 250V
2503	2020 024 90718	10µF 20% 450V
2816	2020 024 00001	330µF 20% 400V

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3000	4822 052 10478	4.7Ω 5% 0.33W
3001	4822 051 30101	100Ω 5% 0.062W
3002	4822 117 12925	47kΩ 1% 0.063W 0603
3003	4822 117 13632	100kΩ 1% 0603 0.62W
3004	4822 051 30273	27kΩ 5% 0.062W
3005	4822 051 30333	33kΩ 5% 0.062W
3006	4822 051 30103	10kΩ 5% 0.062W
3007	4822 051 30103	10kΩ 5% 0.062W
3008	4822 051 30331	330Ω 5% 0.062W
3009	4822 051 30332	3.3Ω 5% 0.062W
3010	4822 051 30471	47Ω 5% 0.062W
3011	4822 051 30471	47Ω 5% 0.062W
3012	4822 051 30153	15kΩ 5% 0.062W
3013	4822 051 30103	10kΩ 5% 0.062W
3014	4822 052 10101	100Ω 5% 0.33W
3015	4822 052 10479	47Ω 5% 0.33W
3016	4822 051 30332	3.3Ω 5% 0.062W
3017	4822 052 10101	100Ω 5% 0.33W
3018	4822 052 10479	47Ω 5% 0.33W
3019	4822 051 30332	3.3Ω 5% 0.062W
3020	4822 051 30332	3.3Ω 5% 0.062W
3021	4822 117 12971	15Ω 5% 0603 0.62W
3022	4822 051 30681	680Ω 5% 0.062W
3023	4822 051 30153	15kΩ 5% 0.062W
3025	3198 021 31820	1.8kΩ 5% 0.062W 0603
3026	2120 368 90118	Potm. lin. 470Ω hor.
3027	4822 117 13632	100kΩ 1% 0603 0.62W
3028	4822 051 30332	3.3Ω 5% 0.062W
3029	4822 051 30332	3.3Ω 5% 0.062W
3030	4822 051 30183	18kΩ 5% 0.062W
3031	4822 051 30103	10kΩ 5% 0.062W
3032	4822 051 30103	10kΩ 5% 0.062W
3033	4822 052 11108	1Ω 5% 0.5W
3034	4822 051 30102	1kΩ 5% 0.062W
3035	4822 051 30332	3.3Ω 5% 0.062W
3036	4822 117 13632	100kΩ 1% 0603 0.62W
3039	4822 051 30102	1kΩ 5% 0.062W
3040	5322 117 13056	8.2kΩ 1% 0.063W 0603
3041	4822 051 30333	33kΩ 5% 0.062W
3042	4822 051 30123	12kΩ 5% 0.1W
3043	4822 051 30109	10Ω 5% 0.062W
3044	4822 051 30471	47Ω 5% 0.062W
3045	4822 117 12971	15Ω 5% 0603 0.62W
3046	4822 117 12971	15Ω 5% 0603 0.62W
3047	4822 051 30479	47Ω 5% 0.062W
3048	4822 051 30272	2.7kΩ 5% 0.062W
3049	4822 051 30333	33kΩ 5% 0.062W
3050	4822 050 28204	820kΩ 1% 0.6W
3051	4822 051 30472	4.7Ω 5% 0.062W
3052	2322 704 67502	7.5kΩ 1% 0.5W
3053	4822 050 26804	680kΩ 1% 0.6W
3054	4822 051 30472	4.7Ω 5% 0.062W
3055	4822 051 30221	220Ω 5% 0.062W
3056	4822 051 30221	220Ω 5% 0.062W
3057	4822 051 30221	220Ω 5% 0.062W
3058	4822 053 20565	5.6MΩ 5% 0.25W
3059	4822 051 30222	2.2kΩ 5% 0.062W
3061	4822 051 30683	68kΩ 5% 0.062W
3064	4822 051 30103	10kΩ 5% 0.062W
3065	4822 117 13632	100kΩ 1% 0603 0.62W
3066	4822 051 30103	10kΩ 5% 0.062W
3067	4822 051 30101	100Ω 5% 0.062W
3068	4822 051 30222	2.2kΩ 5% 0.062W
3070	4822 051 30102	1kΩ 5% 0.062W
3071	4822 051 30103	10kΩ 5% 0.062W
3075	4822 051 30102	1kΩ 5% 0.062W
3089	4822 051 30103	10kΩ 5% 0.062W
3100	4822 051 30109	10Ω 5% 0.062W
3292	4822 051 30561	560Ω 5% 0.062W
3400	2122 550 00158	VDR 1mA 612V
3401	4822 053 21475	4.7MΩ 5% 0.5W
3402	4822 053 21475	4.7MΩ 5% 0.5W
3403	4822 053 21475	4.7MΩ 5% 0.5W
3404	4822 116 83872	220Ω 5% 0.5W
3810	2322 257 41123	12kΩ 5% 5W
3999	4822 051 30102	1kΩ 5% 0.062W

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5001	2422 531 02444	Transf. S13932-04Y
5002▲	3104 308 21241	Transf. 2652.0002
5005	4822 526 10704	Bead 50 Ω at 100MHz
5007	4822 526 10704	Bead 50 Ω at 100MHz
5008	4822 526 10704	Bead 50 Ω at 100MHz
5009	4822 157 11411	Bead 80Ω at 100MHz
5010	4822 157 11411	Bead 80Ω at 100MHz
5013	4822 526 10704	Bead 50 Ω at 100MHz
5015	4822 157 11411	Bead 80Ω at 100MHz
5016	4822 157 11411	Bead 80Ω at 100MHz
5017	4822 526 10704	Bead 50 Ω at 100MHz
5025	4822 526 10704	Bead 50 Ω at 100MHz
5026	4822 526 10704	Bead 50 Ω at 100MHz
5027	4822 526 10704	Bead 50 Ω at 100MHz
5028	4822 526 10704	Bead 50 Ω at 100MHz
5040	4822 157 11411	Bead 80Ω at 100MHz
5291	2422 536 00776	33µH 10%
5292	2422 536 00776	33µH 10%
5293	2422 536 00776	33µH 10%
5401	2422 549 43291	Filter 47mH 2A
5403	3104 308 21201	Line filter DTH40383H65

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6002	4822 130 11397	BAS316
6003	4822 130 11397	BAS316
6004	4822 130 80622	BAT54
6005	4822 130 80622	BAT54
6006	4822 130 11397	BAS316
6007	4822 130 11397	BAS316
6008	4822 130 11397	BAS316
6009	4822 130 11152	UDZ18B
6010	4822 130 11397	BAS316
6011	4822 130 11397	BAS316
6012	9322 208 80685	BZG05C15
6013	9322 208 80685	BZG05C15
6014	9340 548 67115	PDZ22B
6015	4822 130 11397	BAS316
6017	4822 130 11397	BAS316
6020	4822 130 11397	BAS316
6021	9322 207 11687	STPS20L45CT
6022	4822 130 11148	UDZ4.7B
6023	4822 130 11397	BAS316
6025	9322 207 11687	STPS20L45CT
6027	4822 130 11397	BAS316
6028	4822 130 11397	BAS316
6030	4822 130 11397	BAS316
6044	9322 207 11687	STPS20L45CT
6045	9322 207 11687	STPS20L45CT
6051	4822 130 11397	BAS316
6054	4822 130 11551	UDZS10B
6077	9322 202 55685	BYG22D
6078	9322 202 55685	BYG22D
6079	9322 202 55685	BYG22D
6080	9322 202 55685	BYG22D
6081	9340 548 67115	PDZ22B
6291	4822 130 11572	STPS8H100F
6293	4822 130 11572	STPS8H100F
6460	4822 130 11397	BAS316
6461	4822 130 11397	BAS316
6506	4822 130 83147	DF06M
6807	9322 199 74682	GBJ6J-B15

7001	9322 108 21682	MC34067P
7002	9322 149 04682	TCET1102
7004	3198 010 42310	BC847BW
7005	9322 192 18687	STP15NK50ZFP
7006	9322 205 26687	FQPF18N50V2
7007	3198 010 42320	BC857BW
7008	3198 010 42320	BC857BW
7009	3198 010 42320	BC857BW
7010	9322 125 09668	TL431AID
7017	3198 010 42320	BC857BW
7018	3198 010 42310	BC847BW
7030	3198 010 42310	BC847BW
7031	3198 010 42310	BC847BW

Small Signal Board [B] (FTL2.2E Wrap)

Various

0601	3104 317 08781	SW (see Prod. Survey)
0602	3104 317 07861	SW (see Prod. Survey)
0603	3104 317 06591	SW (see Prod. Survey)

0605	3104 317 47621	SW (see Prod. Survey)
1000▲	2422 086 11092	Fuse 500mA 50V F SMD
1001	2422 543 89022	Xtal 6MHz 20p
1026	3104 328 29591	SCART 3 assy
1305	2422 543 01184	Xtal 4.433619MHz 20p
1308	2422 543 01183	Xtal 3.579545MHz 16p
1404	2422 127 00543	Switch 1p 2pos
1407	2422 549 44324	Filt. 5.5/5.74MHz
1408	2422 549 44372	SAW 38.9MHz K3953L
1409	2422 549 44369	SAW 38.9MHz K9656L
1702	2422 540 98456	Resonator 12MHz
1A00	2422 543 89019	Xtal 18.432MHz 12p
1D01	2422 033 00515	Socket DVI-I 29p f
1E02	2422 025 17274	Connector 10p m
1E04	2422 025 18738	Connector 3P m
1G50	2422 025 18427	Connector 31p f
1I01	2422 025 18133	Socket SCART
1I04	2422 025 18133	Socket SCART
1I05	2422 026 05539	Socket Cinch 2p f WhRd
1I06	2422 026 05527	Socket Cinch 2p f
1I07	2422 026 05054	Socket Cinch 2p f WhRd
1I53	2422 549 45325	Bead 67Ω at 100MHz
1I56	2422 549 45325	Bead 67Ω at 100MHz
1I57	2422 549 45325	Bead 67Ω at 100MHz
1I59	2422 549 45325	Bead 67Ω at 100MHz
1I79▲	2422 086 00623	Fuse 3A T 125V
1M01	2422 025 10768	Connector 3p m
1M03	2422 025 10771	Connector 10p m
1M07	4822 267 10637	Connector 5p
1M15	4822 267 10748	Connector 3p
1M17	2422 025 17765	Connector 7p m
1M20	2422 025 10772	Connector 12p m
1M36	2422 025 10655	Connector 11p m
1M46	2422 025 10655	Connector 11p m
1M49	2422 025 10768	Connector 3p m
1M52	2422 025 10769	Connector 9p m
1T01	3139 147 19801	Tuner UV1318S/A IH -3
1U01▲	2422 086 11112	Fuse 1A T 125V
8220	3104 311 08631	Cable12P/480/12P
8303	3104 311 06511	Cable 10p/280/10p
8307	3104 311 05691	Cable 5p/100/5p
8308	3104 311 06951	Cable 2P3/180/2P
8317	3104 311 07871	Cable 7P/180/7P
8336	3104 311 07451	Cable 11P/220/11P
8337	3104 311 07451	Cable 11P/220/11P
8346	3104 311 06991	Cable 11P/280/11P
8352	3104 311 07381	Cable 9P/220/9P

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2002	3198 034 02790	47pF 1% 50V 0402
2003	2238 780 15654	220nF 10% 16V 0805
2004	2238 780 15654	220nF 10% 16V 0805
2005	2238 586 59812	100nF 20% 50V 0603
2006	2238 586 59812	100nF 20% 50V 0603
2007	2238 586 59812	100nF 20% 50V 0603
2008	2238 586 59812	100nF 20% 50V 0603
2013	2020 021 91557	100µF 20% 16V
2016	4822 124 12095	100µF 20% 16V
2017	2238 586 59812	100nF 20% 50V 0603
2018	4822 126 14324	33pF 5% 50V 0402
2019	2238 586 59812	100nF 20% 50V 0603
2020	2238 869 15221	220pF 1% 50V 0402
2022	2238 586 59812	100nF 20% 50V 0603
2023	2238 586 59812	100nF 20% 50V 0603
2024	2238 586 59812	100nF 20% 50V 0603
2025	2238 586 59812	100nF 20% 50V 0603
2026	2238 586 59812	100nF 20% 50V 0603
2027	2238 586 59812	100nF 20% 50V 0603
2028	2238 586 59812	100nF 20% 50V 0603
2029	2238 586 59812	100nF 20% 50V 0603
2031	2238 586 59812	100nF 20% 50V 0603
2033	2238 869 75829	82pF 5% 50V 0402
2034	2238 869 75829	82pF 5% 50V 0402
2035	2238 869 75829	82pF 5% 50V 0402
2036	2238 869 75829	82pF 5% 50V 0402
2037	2238 869 75829	82pF 5% 50V 0402
2038	2238 586 59812	100nF 20% 50V 0603
2039	2238 586 59812	100nF 20% 50V 0603
2040	2238 586 59812	100nF 20% 50V 0603
2063	2238 586 59812	100nF 20% 50V 0603
2067	2238 586 59812	100nF 20% 50V 0603
2072	2238 586 59812	100nF 20% 50V 0603
2073	3198 017 44740	470nF 10V 0603
2074	2238 586 59812	100nF 20% 50V 0603
2075	2238 586 59812	100nF 20% 50V 0603
2305	2238 586 59812	100nF 20% 50V 0603
2316	2238 586 59812	100nF 20% 50V 0603
2322	2238 586 59812	100nF 20% 50V 0603
2324	5322 126 11583	10nF 10% 50V 0603
2350	2238 586 59812	100nF 20% 50V 0603
2351	2238 586 59812	100nF 20% 50V 0603
2352	2238 586 59812	100nF 20% 50V 0603
2356	2238 586 59812	100nF 20% 50V 0603
2357	2238 586 59812	100nF 20% 50V 0603
2358	3198 035 03320	3.3nF 5% 50V 0402
2359	3198 034 01590	15pF 1% 50V 0402
2360	3198 034 01280	1.2pF 1% 50V 0402
2361	3198 034 01280	1.2pF 1% 50V 0402
2362	3198 034 01290	12pF 1% 50V 0402
2365	2238 586 59812	100nF 20% 50V 0603
2366	2238 586 59812	100nF 20% 50V 0603
2367	2238 586 59812	100nF 20% 50V 0603
2368	2238 586 59812	100nF 20% 50V 0603
2369	2238 586 59812	100nF 20% 50V 0603
2370	2238 586 59812	100nF 20% 50V 0603
2371	3198 035 14720	4.7nF 5% 25V 0402
2372	2022 552 05679	1µF 10% 16V 0805
2373	2238 586 59812	100nF 20% 50V 0603
2374	2022 552 05679	1µF 10% 16V 0805
2375	2238 787 15641	22nF 5% 16V 0402
2376	2238 586 59812	100nF 20% 50V 0603
2377	2020 021 91557	100µF 20% 16V
2378	2238 586 59812	100nF 20% 50V 0603
2384	2238 586 59812	100nF 20% 50V 0603
2387	2022 552 05679	1µF 10% 16V 0805
2391	2238 586 59812	100nF 20% 50V 0603
2392	2022 552 05679	1µF 10% 16V 0805
2394	2022 552 05679	1µF 10% 16V 0805
2403	2238 586 59812	100nF 20% 50V 0603
2404	2022 552 05679	1µF 10% 16V 0805
2405	3198 035 14720	4.7nF 5% 25V 0402
2406	2238 869 15221	220pF 1% 50V 0402
2407	4822 126 14524	68pF 5% 50V 0402
2408	3198 034 03380	3.3pF 1% 50V 0402
2409	2022 552 05679	1µF 10% 16V 0805
2410	2020 021 91557	100µF 20% 16V
2411	2238 586 59812	100nF 20% 50V 0603
2412	3198 035 14720	4.7nF 5% 25V 0402
2414	2020 021 91557	100µF 20% 16V
2415	2238 586 59812	100nF 20% 50V 0603
2416	2022 552 05679	1µF 10% 16V 0805
2417	4822 126 14583	470nF 10% 16V 0805
2418	3198 034 05680	5.6pF 1% 50V 0402
2425	2020 021 91557	100µF 20% 16V
2432	2238 586 59812	100nF 20% 50V 0603
2433	2238 586 59812	100nF 20% 50V 0603
2434	2238 586 59812	100nF 20% 50V 0603
2435	2020 552 96618	1nF 10% 50V 0402
2436	2022 552 05679	1µF 10% 16V 0805
2707	3198 034 02790	47pF 1% 50V 0402
2709	2238 586 59812	100nF 20% 50V 0603
2710	2238 586 59812	100nF 20% 50V 0603
2711	2238 586 59812	100nF 20% 50V 0603
2712	2238 586 59812	100nF 20% 50V 0603
2716	2238 586 59812	100nF 20% 50V 0603
2717	2238 586 59812	100nF 20% 50V 0603
2718	3198 034 01590	15pF 1% 50V 0402
2719	3198 034 01590	15pF 1% 50V 0402
2720	3198 034 01590	15pF 1% 50V 0402
2721	2238 869 15101	100pF 5% 50V 0402
2722	2238 869 15101	100pF 5% 50V 0402
2723	2238 586 59812	100nF 20% 50V 0603
2725	2238 586 59812	100nF 20% 50V 0603
2726	2238 586 59812	100nF 20% 50V 0603
2727	2238 586 59812	100nF 20% 50V 0603
2728	2020 021 91854	10µF 20% 16V
2729	2238 586 59812	100nF 20% 50V 0603
2730	2020 021 91557	100µF 20% 16V
2731	2238 586 59812	100nF 20% 50V 0603
2732	2020 552 96618	1nF 10% 50V 0402
2733	2238 586 59812	100nF 20% 50V 0603
2734	2238 586 59812	100nF 20% 50V 0603
2735	2238 586 59812	100nF 20% 50V 0603
2736	2238 586 59812	100nF 20% 50V 0603
2738	2238 586 59812	100nF 20% 50V 0603
2739	2020 021 91557	100µF 20% 16V
2740	2238 787 15641	22nF 5% 16V 0402
2741	2238 787 15641	22nF 5% 16V 0402
2742	2238 787 15641	22nF 5% 16V 0402
2743	2238 586 59812	100nF 20% 50V 0603
2744	2238 586 59812	100nF 20% 50V 0603
2745	2238 586 59812	100nF 20% 50V 0603
2746	2238 586 59812	100nF 20% 50V 0603
2747	4822 126 14524	68pF 5% 50V 0402
2748	2238 586 59812	100nF 20% 50V 0603
2749	2238 586 59812	100nF 20% 50V 0603
2750	2020 552 96618	1nF 10% 50V 0402
2751	2020 552 96618	1nF 10% 50V 0402
2752	2020 552 96618	1nF 10% 50V 0402
2753	2020 552 96618	1nF 10% 50V 0402
2754	2020 552 96618	1nF 10% 50V 0402
2755	2020 552 96618	1nF 10% 50V 0402
2756	2020 552 96618	1nF 10% 50V 0402
2757	2238 787 15641	22nF 5% 16V 0402
2759	2020 552 96618	1nF 10% 50V 0402
2760	2238 787 15641	22nF 5% 16V 0402
2761	2238 787 15641	22nF 5% 16V 0402
2762	2238 787 15641	22nF 5% 16V 0402
2763	2238 787 15641	22nF 5% 16V 0402
2764	2238 787 15641	22nF 5% 16V 0402
2768	2238 787 15641	22nF 5% 16V 0402
2769	2020 552 96618	1nF 10% 50V 0402
2770	2020 552 96618	1nF 10% 50V 0402
2771	2020 552 96618	1nF 10% 50V 0402
2772	2238 787 15641	22nF 5% 16V 0402
2773	2020 552 96618	1nF 10% 50V 0402
2777	2020 552 96618	1nF 10% 50V 0402
2778	2020 552 96618	1nF 10% 50V 0402
2780	2020 552 96618	1nF 10% 50V 0402
2781	2020 552 96618	1nF 10% 50V 0402
2782	2020 552 96618	1nF 10% 50V 0402
2784	2238 787 15641	22nF 5% 16V 0402
2785	2238 787 15641	22nF 5% 16V 0402
2788	2238 586 59812	100nF 20% 50V 0603
2789	2238 586 59812	100nF 20% 50V 0603
2790	2238 586 59812	100nF 20% 50V 0603
2791	2238 586 59812	100nF 20% 50V 0603
2792	2238 586 59812	100nF 20% 50V 0603
2793	2238 586 59812	100nF 20% 50V 0603
2794	2020 552 96618	1nF 10% 50V 0402
2795	2020 552 96618	1nF 10% 50V 0402
2796	2020 552 96618	1nF 10% 50V 0402
2797	2020 552 96618	1nF 10% 50V 0402
2798	2020 552 96618	1nF 10% 50V 0402
2799	2020 552 96618	1nF 10% 50V 0402
2800	2238 586 59812	100nF 20% 50V 0603
2802	2238 586 59812	100nF 20% 50V 0603
2804	2238 586 59812	100nF 20% 50V 0603
2805	2020 552 96618	1nF 10% 50V 0402
2806	2238 586 59812	100nF 20% 50V 0603
2807	2238 586 59812	100nF 20% 50V 0603
2808	2020 552 96618	1nF 10% 50V 0402
2809	2020 552 96618	1nF 10% 50V 0402
2810	2238 586 59812	100nF 20% 50V 0603
2811	2238 586 59812	100nF 20% 50V 0603
2812	3198 031 02290	22Ω 5% 0.1W 0402
2813	2238 586 59812	100nF 20% 50V 0603
2817	2238 586 59812	100nF 20% 50V 0603
2819	2238 586 59812	100nF 20% 50V 0603
2821	2238 787 15641	22nF 5% 16V 0402
2822	2238 787 15641	22nF 5% 16V 0402
2823	2238 586 59812	100nF 20% 50V 0603
2824	2238 586 59812	100nF 20% 50V 0603
2825	2238 586 59812	100nF 20% 50V 0603
2826	2238 586 59812	100nF 20% 50V 0603
2827	2238 586 59812	100nF 20% 50V 0603
2829	2020 021 91557	100µF 20% 16V
2830	2238 586 59812	100nF 20% 50V 0603
2831	2238 586 59812	100nF 20% 50V 0603
2832	2238 586 59812	100nF 20% 50V 0603
2833	2238 586 59812	100nF 20% 50V 0603
2834	2238 586 59812	100nF 20% 50V 0603
2835	2238 586 59812	100nF 20% 50V 0603
2836	2238 586 59812	100nF 20% 50V 0603
2837	2238 869 15101	100pF 5% 50V 0402
2838	2238 869 15101	100pF 5% 50V 0402
2844	2238 586 59812	100nF 20% 50V 0603
2845	2238 586 59812	100nF 20% 50V 0603
2846	2238 586 59812	100nF 20% 50V 0603
2848	2238 586 59812	100nF 20% 50V 0603
2849	2238 586 59812	100nF 20% 50V 0603
2850	2238 586 59812	100nF 20% 50V 0603
2851	2238 586 59812	100nF 20% 50V 0603
2852	2238 586 59812	100nF 20% 50V 0603
2853	2238 586 59812	100nF 20% 50V 0603
2854	2238 586 59812	100nF 20% 50V 0603
2855	2238 586 59812	100nF 20% 50V 0603
2856	2238 586 59812	100nF 20% 50V 0603
2857	2238 586 59812	100nF 20% 50V 0603
2858	2238 586 59812	100nF 20% 50V 0603
2859	2238 586 59812	100nF 20% 50V 0603
2860	2238 586 59812	100nF 20% 50V 0603
2861	2238 586 59812	100nF 20% 50V 0603
2862	2238 586 59812	100nF 20% 50V 0603
2863	2238 586 59812	100nF 20% 50V 0603
2864	2238 586 59812	100nF 20% 50V 0603
2865	2238 586 59812	100nF 20% 50V 0603
2866	2238 586 59812	100nF 20% 50V 0603
2867	2238 586 59812	100nF 20% 50V 0603
2868	2238 586 59812	100nF 20% 50V 0603
2869	2238 586 59812	100nF 20% 50V 0603
2870	2238 586 59812	100nF 20% 50V 0603
2871	2020 021 91557	100µF 20% 16V
2872	2238 586 59812	100nF 20% 50V 0603
2873	2238 586 59812	100nF 20% 50V 0603
2874	2238 586 59812	100nF 20% 50V 0603
2875	2238 586 59812	100nF 20% 50V 0603
2876	2238 586 59812	100nF 20% 50V 0603
2877	2238 586 59812	100nF 20% 50V 0603
2878	2238 586 59812	100nF 20% 50V 0603

2879	2238 586 59812	100nF 20% 50V 0603
2880	2238 586 59812	100nF 20% 50V 0603
2881	3198 034 02790	47pF 1% 50V 0402
2882	2238 586 59812	100nF 20% 50V 0603
2883	2238 586 59812	100nF 20% 50V 0603
2884	2238 586 59812	100nF 20% 50V 0603
2885	2238 586 59812	100nF 20% 50V 0603
2886	2238 586 59812	100nF 20% 50V 0603
2887	2238 586 59812	100nF 20% 50V 0603
2888	2238 586 59812	100nF 20% 50V 0603
2889	2020 021 91557	100µF 20% 16V
2890	2238 586 59812	100nF 20% 50V 0603
2891	2238 586 59812	100nF 20% 50V 0603
2892	2238 586 59812	100nF 20% 50V 0603
2893	2238 586 59812	100nF 20% 50V 0603
2894	2238 586 59812	100nF 20% 50V 0603
2895	2020 021 91854	10µF 20% 16V
2898	2020 021 91854	10µF 20% 16V
2899	2238 586 59812	100nF 20% 50V 0603
2917	2238 586 59812	100nF 20% 50V 0603
2919	2020 021 91557	100µF 20% 16V
2920	2238 586 59812	100nF 20% 50V 0603
2921	2238 586 59812	100nF 20% 50V 0603
2922	2020 552 96628	10nF 10% 16V 0402
2923	2020 552 96628	10nF 10% 16V 0402
2924	2238 586 59812	100nF 20% 50V 0603
2937	2020 021 91557	100µF 20% 16V
2939	2020 021 91557	100µF 20% 16V
2A00	2020 552 96618	1nF 10% 50V 0402
2A01	2020 552 96618	1nF 10% 50V 0402
2A02	2022 552 05679	1µF 10% 16V 0805
2A03	2020 021 91557	100µF 20% 16V
2A04	2022 552 05679	1µF 10% 16V 0805
2A05	2020 021 91557	100µF 20% 16V
2A06	2020 552 96618	1nF 10% 50V 0402
2A07	2020 552 96618	1nF 10% 50V 0402
2A08	2022 552 05679	1µF 10% 16V 0805
2A10	2238 586 59812	100nF 20% 50V 0603
2A11	2238 586 59812	100nF 20% 50V 0603
2A14	2020 552 96618	1nF 10% 50V 0402
2A15	2020 021 91557	100µF 20% 16V
2A16	2238 586 59812	100nF 20% 50V 0603
2A17	2020 552 96618	1nF 10% 50V 0402
2A18	2020 021 91557	100µF 20% 16V
2A20	2022 552 05679	1µF 10% 16V 0805
2A21	2238 586 59812	100nF 20% 50V 0603
2A22	2238 586 59812	100nF 20% 50V 0603
2A23	2238 586 59812	100nF 20% 50V 0603
2A25	2238 869 15101	100pF 5% 50V 0402
2A26	2022 552 05679	1µF 10% 16V 0805
2A27	2020 552 96618	1nF 10% 50V 0402
2A29	2238 869 15101	100pF 5% 50V 0402
2A30	2238 869 15101	100pF 5% 50V 0402
2A31	2022 552 05679	1µF 10% 16V 0805
2A32	2238 869 15101	100pF 5% 50V 0402
2A33	2238 586 59812	100nF 20% 50V 0603
2A35	2020 552 96618	1nF 10% 50V 0402
2A36	2238 869 15101	100pF 5% 50V 0402
2A37	2238 869 15101	100pF 5% 50V 0402
2A39	2022 552 05679	1µF 10% 16V 0805
2A40	2238 586 59812	100nF 20% 50V 0603
2A41	2020 021 91854	10µF 20% 16V
2A42	2020 021 91854	10µF 20% 16V
2A43	2020 021 91854	10µF 20% 16V
2A44	2238 586 59812	100nF 20% 50V 0603
2A46	2022 552 05679	1µF 10% 16V 0805
2A47	2022 552 05679	1µF 10% 16V 0805
2A49	2022 552 05679	1µF 10% 16V 0805
2A50	2020 552 96618	1nF 10% 50V 0402
2A53	2022 552 05679	1µF 10% 16V 0805
2A54	2020 552 96618	1nF 10% 50V 0402
2A56	2022 552 05679	1µF 10% 16V 0805
2A59	2022 552 05679	1µF 10% 16V 0805
2A62	2022 552 05679	1µF 10% 16V 0805
2A79	2238 586 59812	100nF 20% 50V 0603
2A91	2238 869 15101	100pF 5% 50V 0402
2A92	2022 552 05679	1µF 10% 16V 0805
2A95	2238 869 15221	220pF 1% 50V 0402
2A99	2022 552 05679	1µF 10% 16V 0805
2AA5	2238 869 15101	100pF 5% 50V 0402
2AA6	2020 552 96618	1nF 10% 50V 0402
2AA7	2020 552 96618	1nF 10% 50V 0402
2AA9	3198 034 05680	5.6pF 1% 50V 0402
2AB0	3198 034 05680	5.6pF 1% 50V 0402
2AB2	2020 552 96618	1nF 10% 50V 0402
2AB3	2022 552 05679	1µF 10% 16V 0805
2AB4	2022 552 05679	1µF 10% 16V 0805
2AB5	2020 021 91854	10µF 20% 16V
2AB6	2020 552 96618	1nF 10% 50V 0402
2AB7	2020 552 96618	1nF 10% 50V 0402
2AB8	2022 552 05679	1µF 10% 16V 0805
2C00	2238 586 59812	100nF 20% 50V 0603
2C01	2238 586 59812	100nF 20% 50V 0603
2C02	2238 586 59812	100nF 20% 50V 0603
2D04	2020 552 96618	1nF 10% 50V 0402
2D09	2238 586 59812	100nF 20% 50V 0603
2D10	2022 552 05679	1µF 10% 16V 0805
2D11	2020 552 96628	10nF 10% 16V 0402
2D12	2020 552 96628	10nF 10% 16V 0402
2E01	2238 586 59812	100nF 20% 50V 0603
2E02	2238 586 59812	100nF 20% 50V 0603
2E03	2238 586 59812	100nF 20% 50V 0603
2E04	2238 586 59812	100nF 20% 50V 0603
2E06	2238 586 59812	100nF 20% 50V 0603
2E07	2238 586 59812	100nF 20% 50V 0603
2E08	2238 586 59812	100nF 20% 50V 0603
2E09	2238 586 59812	100nF 20% 50V 0603
2E10	2238 586 59812	100nF 20% 50V 0603
2E11	2238 586 59812	100nF 20% 50V 0603
2E12	2238 586 59812	100nF 20% 50V 0603
2E13	2238 586 59812	100nF 20% 50V 0603
2E14	2238 586 59812	100nF 20% 50V 0603
2E15	2238 586 59812	100nF 20% 50V 0603
2E16	2238 586 59812	100nF 20% 50V 0603
2E17	2238 586 59812	100nF 20% 50V 0603
2E18	2238 586 59812	100nF 20% 50V 0603
2E19	2238 586 59812	100nF 20% 50V 0603
2E20	2238 586 59812	100nF 20% 50V 0603
2E21	3198 017 34730	47nF 16V 0603
2E22	4822 126 14519	22pF 5% 50V 0402
2E23	3198 017 34730	47nF 16V 0603
2E24	4822 126 14519	22pF 5% 50V 0402
2E25	3198 017 34730	47nF 16V 0603
2E26	4822 126 14519	22pF 5% 50V 0402
2E27	2238 586 59812	100nF 20% 50V 0603
2E28	3198 017 34730	47nF 16V 0603
2E29	3198 017 33330	33nF 20% 16V 0603
2E34	3198 035 03320	3.3nF 5% 50V 0402
2E35	2238 586 59812	100nF 20% 50V 0603
2E39	2238 869 15109	10pF 5% 50V 0402
2E41	2238 586 59812	100nF 20% 50V 0603
2E42	2020 552 96628	10nF 10% 16V 0402
2E43	2238 586 59812	100nF 20% 50V 0603
2E49	2238 586 59812	100nF 20% 50V 0603
2E50	4822 124 81058	47µF 20% 4V
2E51	2022 552 05679	1µF 10% 16V 0805
2E52	2238 586 59812	100nF 20% 50V 0603
2E54	2238 586 59812	100nF 20% 50V 0603
2E55	2022 552 05679	1µF 10% 16V 0805
2E56	2020 552 96628	10nF 10% 16V 0402
2E57	2020 552 96628	10nF 10% 16V 0402
2E58	2020 552 96628	10nF 10% 16V 0402
2E59	2020 552 96628	10nF 10% 16V 0402
2E62	2238 586 59812	100nF 20% 50V 0603
2E65	2238 586 59812	100nF 20% 50V 0603
2E66	2238 586 59812	100nF 20% 50V 0603
2E67	2238 586 59812	100nF 20% 50V 0603
2E68	2020 552 96628	10nF 10% 16V 0402
2E69	2020 552 96628	10nF 10% 16V 0402
2E70	2020 552 96628	10nF 10% 16V 0402
2E71	2020 552 96628	10nF 10% 16V 0402
2E72	2238 586 59812	100nF 20% 50V 0603
2E73	2238 586 59812	100nF 20% 50V 0603
2E74	2238 586 59812	100nF 20% 50V 0603
2E75	2238 586 59812	100nF 20% 50V 0603
2E77	2238 586 59812	100nF 20% 50V 0603
2E78	2238 586 59812	100nF 20% 50V 0603
2E79	2238 586 59812	100nF 20% 50V 0603
2E80	2238 586 59812	100nF 20% 50V 0603
2E81	2022 552 05679	1µF 10% 16V 0805
2E82	2238 586 59812	100nF 20% 50V 0603
2E83	2238 586 59812	100nF 20% 50V 0603
2E84	2238 586 59812	100nF 20% 50V 0603
2E86	2238 586 59812	100nF 20% 50V 0603
2E87	4822 124 12095	100µF 20% 16V
2E93	2238 586 59812	100nF 20% 50V 0603
2E94	2238 586 59812	100nF 20% 50V 0603
2E96	2238 869 15101	100pF 5% 50V 0402
2E97	2238 869 15101	100pF 5% 50V 0402
2E98	2238 869 15101	100pF 5% 50V 0402
2E99	4822 124 81058	47µF 20% 4V
2I00	2238 869 15101	100pF 5% 50V 0402
2I11	2022 552 05679	1µF 10% 16V 0805
2I12	4822 126 14585	100nF 10% 0805 50V
2I15	2022 552 05679	1µF 10% 16V 0805
2I16	2238 869 15101	100pF 5% 50V 0402
2I17	2238 869 15101	100pF 5% 50V 0402
2I18	2238 869 15101	100pF 5% 50V 0402
2I19	2238 869 15101	100pF 5% 50V 0402
2I20	3198 035 03310	330pF 5% 50V 0402
2I21	2238 869 15101	100pF 5% 50V 0402
2I22	2238 869 15101	100pF 5% 50V 0402
2I23	2238 869 15101	100pF 5% 50V 0402
2I24	2238 869 15101	100pF 5% 50V 0402
2I25	3198 035 03310	330pF 5% 50V 0402
2I26	2238 869 15101	100pF 5% 50V 0402
2I27	2238 869 15101	100pF 5% 50V 0402
2I30	2238 869 15101	100pF 5% 50V 0402
2I32	4822 124 23002	10µF 16V
2I36	2238 869 15101	100pF 5% 50V 0402
2I38	2238 869 15101	100pF 5% 50V 0402
2I46	2020 552 96618	1nF 10% 50V 0402
2I47	2020 552 96618	1nF 10% 50V 0402
2I50	2238 586 59812	100nF 20% 50V 0603
2I57	2238 869 15101	100pF 5% 50V 0402
2I58	2238 869 15101	100pF 5% 50V 0402
2I64	2238 869 15101	100pF 5% 50V 0402
2I65	2238 869 15101	100pF 5% 50V 0402
2I69	4822 126 14324	33pF 5% 50V 0402
2I70	4822 126 14324	33pF 5% 50V 0402
2I86	4822 126 14324	33pF 5% 50V 0402
2I87	2238 869 15101	100pF 5% 50V 0402
2I88	2238 869 15101	100pF 5% 50V 0402
2I89	2022 552 05679	1µF 10% 16V 0805
2I90	2022 552 05679	1µF 10% 16V 0805
2I91	2238 586 59812	100nF 20% 50V 0603
2I92	2022 552 05679	1µF 10% 16V 0805
2I93	2238 586 59812	100nF 20% 50V 0603
2I94	2238 586 59812	100nF 20% 50V 0603
2I95	2238 586 59812	100nF 20% 50V 0603
2I96	2022 552 05679	1µF 10% 16V 0805
2I97	2238 586 59812	100nF 20% 50V 0603
2I98	2238 586 59812	100nF 20% 50V 0603
2I99	4822 124 23002	10µF 16V
2IA0	4822 124 23002	10µF 16V
2IA1	4822 124 23002	10µF 16V
2IA2	4822 124 23002	10µF 16V
2IA3	2020 552 96618	1nF 10% 50V 0402
2IA4	4822 126 14585	100nF 10% 0805 50V
2IA5	2020 021 91557	100µF 20% 16V
2IA9	2020 021 91557	100µF 20% 16V
2IB3	2238 586 59812	100nF 20% 50V 0603
2IB5	2022 552 05679	1µF 10% 16V 0805
2IB8	2238 586 59812	100nF 20% 50V 0603
2IB9	2238 586 59812	100nF 20% 50V 0603
2IC0	4822 124 23002	10µF 16V
2IC1	4822 124 23002	10µF 16V
2IC3	2238 586 59812	100nF 20% 50V 0603
2IC5	2238 586 59812	100nF 20% 50V 0603
2IC6	3198 034 04790	27pF 1% 50V 0402
2IC7	3198 034 04790	27pF 1% 50V 0402
2IC8	2022 552 05679	1µF 10% 16V 0805
2IC9	4822 126 13883	220pF 5% 50V
2IE1	2238 586 59812	100nF 20% 50V 0603
2IE2	2238 586 59812	100nF 20% 50V 0603
2IE3	2022 552 05679	1µF 10% 16V 0805
2IE4	2238 586 59812	100nF 20% 50V 0603
2IE5	2238 586 59812	100nF 20% 50V 0603
2IE6	2238 586 59812	100nF 20% 50V 0603
2IE7	2022 552 05679	1µF 10% 16V 0805
2IE8	2022 552 05679	1µF 10% 16V 0805
2IE9	2238 586 59812	100nF 20% 50V 0603
2IF1	2238 586 59812	100nF 20% 50V 0603
2IF2	2238 586 59812	100nF 20% 50V 0603
2IF3	2238 586 59812	100nF 20% 50V 0603
2IF4	4822 124 80151	47µF 16V
2IF5	2238 586 59812	100nF 20% 50V 0603
2IF8	4822 124 11946	22µF 20% 16V
2IF9	4822 124 11946	22µF 20% 16V
2IG1	2238 586 59812	100nF 20% 50V 0603
2IG2	5322 124 41945	22µF 20% 35V
2IG3	2238 586 59812	100nF 20% 50V 0603
2IG4	2238 586 59812	100nF 20% 50V 0603
2IG5	2238 586 59812	100nF 20% 50V 0603
2IG6	2238 586 59812	100nF 20% 50V 0603
2IG7	2238 586 59812	100nF 20% 50V 0603
2IG8	2238 586 59812	100nF 20% 50V 0603
2IG9	2238 586 59812	100nF 20% 50V 0603
2IH1	2238 586 59812	100nF 20% 50V 0603
2IH2	2238 586 59812	100nF 20% 50V 0603
2IH3	2020 552 96618	1nF 10% 50V 0402
2IH4	2022 552 05679	1µF 10% 16V 0805
2IH5	2238 586 59812	100nF 20% 50V 0603
2IH6	4822 124 11946	22µF 20% 16V
2IH7	4822 124 11946	22µF 20% 16V
2IH8	4822 124 11946	22µF 20% 16V
2IH9	4822 124 11946	22µF 20% 16V
2IJ4	2238 586 59812	100nF 20% 50V 0603
2IJ8	2022 552 05679	1µF 10% 16V 0805
2IJ9	2022 552 05679	1µF 10% 16V 0805
2IK1	2238 780 15654	220nF 10% 16V 0805
2IK5	2238 586 59812	100nF 20% 50V 0603
2IK6	2238 586 59812	100nF 20% 50V 0603
2IK7	2238 586 59812	100nF 20% 50V 0603
2IL0	2238 869 15109	10pF 5% 50V 0402
2IN8	2238 586 59812	100nF 20% 50V 0603
2IN9	2238 586 59812	100nF 20% 50V 0603
2IS6	4822 124 12095	100µF 20% 16V
2L00	4822 124 23237	22µF 63V
2L01	2238 586 59812	100nF 20% 50V 0603
2L02	2238 586 59812	100nF 20% 50V 0603
2L03	2238 586 59812	100nF 20% 50V 0603

2L04	2238 586 59812	100nF 20% 50V 0603
2L05	2238 586 59812	100nF 20% 50V 0603
2L06	2238 586 59812	100nF 20% 50V 0603
2L07	2238 586 59812	100nF 20% 50V 0603
2L08	2238 586 59812	100nF 20% 50V 0603
2L09	2238 586 59812	100nF 20% 50V 0603
2L10	2238 586 59812	100nF 20% 50V 0603
2L11	2238 586 59812	100nF 20% 50V 0603
2L12	2238 586 59812	100nF 20% 50V 0603
2L13	2238 586 59812	100nF 20% 50V 0603
2L14	2238 586 59812	100nF 20% 50V 0603
2L15	2238 586 59812	100nF 20% 50V 0603
2L16	2238 586 59812	100nF 20% 50V 0603
2L17	2238 586 59812	100nF 20% 50V 0603
2L19	4822 124 23237	22µF 6.3V
2L20	2238 586 59812	100nF 20% 50V 0603
2L21	2238 586 59812	100nF 20% 50V 0603
2L25	2238 586 59812	100nF 20% 50V 0603
2L26	3198 017 33330	33nF 20% 16V 0603
2L27	3198 035 14720	4.7nF 5% 25V 0402
2L28	3198 034 03990	39pF 1% 50V 0402
2L29	3198 034 03990	39pF 1% 50V 0402
2L30	3198 034 03990	39pF 1% 50V 0402
2L31	3198 017 34730	47nF 16V 0603
2L32	3198 035 03320	3.3nF 5% 50V 0402
2L33	2238 586 59812	100nF 20% 50V 0603
2L34	2238 586 59812	100nF 20% 50V 0603
2L51	4822 124 23237	22µF 6.3V
2L52	3198 017 34730	47nF 16V 0603
2L54	3198 017 34730	47nF 16V 0603
2L56	2020 552 96618	1nF 10% 50V 0402
2L57	3198 017 34730	47nF 16V 0603
2L58	4822 124 23237	22µF 6.3V
2L60	3198 034 04790	27pF 1% 50V 0402
2P80	4822 124 12095	100µF 20% 16V
2P81	2238 586 59812	100nF 20% 50V 0603
2T01	3198 032 28210	220µF 20% 6.3V
2T04	2238 586 15641	22nF 10% 50V 0603
2T05	3198 032 28210	220µF 20% 6.3V
2T06	2020 552 96628	10nF 10% 16V 0402
2T09	3198 017 34730	47nF 16V 0603
2T12	2238 586 59812	100nF 20% 50V 0603
2T13	2020 552 96628	10nF 10% 16V 0402
2T15	2022 552 05679	1µF 10% 16V 0805
2T21	3198 032 28210	220µF 20% 6.3V
2T30	2222 784 13681	22µF 10% 16V X5R 1812
2T31	2222 784 13681	22µF 10% 16V X5R 1812
2T32	2238 586 59812	100nF 20% 50V 0603
2T33	2238 586 59812	100nF 20% 50V 0603
2T34	2020 552 96618	1nF 10% 50V 0402
2T35	2238 586 59812	100nF 20% 50V 0603
2T36	2022 552 05679	1µF 10% 16V 0805
2T37	2020 552 96628	10nF 10% 16V 0402
2T38	2238 586 59812	100nF 20% 50V 0603
2T40	2238 586 59812	100nF 20% 50V 0603
2T41	5322 126 11578	1nF 10% 50V 0603
2T42	2238 916 15641	22nF 10% 25V 0603
2T43	2222 784 13681	22µF 10% 16V X5R 1812
2T44	2020 552 96628	10nF 10% 16V 0402
2T45	2020 552 96628	10nF 10% 16V 0402
2T46	5322 126 11578	1nF 10% 50V 0603
2T47	3198 035 04710	470pF 50V 0402
2T48	2238 586 59812	100nF 20% 50V 0603
2T49	2020 552 96618	1nF 10% 50V 0402
2T50	2020 552 96628	10nF 10% 16V 0402
2T51	2022 552 05679	1µF 10% 16V 0805
2T52	2022 552 05679	1µF 10% 16V 0805
2T53	3198 035 03320	3.3nF 5% 50V 0402
2T54	2238 586 59812	100nF 20% 50V 0603
2U03	2022 552 05679	1µF 10% 16V 0805
2U04	4822 126 14583	470nF 10% 16V 0805
2U05	2020 552 96618	1nF 10% 50V 0402
2U06	2022 552 05635	22µF 10% 16V
2U07	2238 869 75829	82pF 5% 50V 0402
2U08	2222 784 13681	22µF 10% 16V X5R 1812
2U09	2020 552 96618	1nF 10% 50V 0402
2U10	2022 552 05635	22µF 10% 16V
2U11	2020 552 96618	1nF 10% 50V 0402
2U12	2020 552 96628	10nF 10% 16V 0402
2U13	2238 780 15654	220nF 10% 16V 0805
2U14	4822 126 14583	470nF 10% 16V 0805
2U15	4822 124 12095	100µF 20% 16V
2U16	3198 035 14720	4.7nF 5% 25V 0402
2U17	4822 126 14583	470nF 10% 16V 0805
2U18	3198 034 01210	120pF 1% 50V 0402
2U19	2238 586 59812	100nF 20% 50V 0603
2U20	2022 552 05679	1µF 10% 16V 0805
2U21	4822 126 14583	470nF 10% 16V 0805
2U22	2022 552 05679	1µF 10% 16V 0805
2U23	4822 124 12095	100µF 20% 16V
2U24	2020 552 96618	1nF 10% 50V 0402
2U25	2238 586 59812	100nF 20% 50V 0603
2U26	2238 586 59812	100nF 20% 50V 0603
2U27	3198 035 26820	6.8nF 10% 16V 0402

2U28	3198 035 26820	6.8nF 10% 16V 0402
2U30	3198 034 01210	120pF 1% 50V 0402
2U31	4822 124 12095	100µF 20% 16V
2U32	3198 035 03320	3.3nF 5% 50V 0402
2U33	2022 552 05679	1µF 10% 16V 0805
2U34	2238 787 15641	22nF 5% 16V 0402
2U35	2022 552 05679	1µF 10% 16V 0805
2U36	2238 586 59812	100nF 20% 50V 0603
2U37	2020 552 96623	2.2nF 10% 50V 0402
2U39	2238 586 59812	100nF 20% 50V 0603
2U40	2020 552 96623	2.2nF 10% 50V 0402
2U41	3198 035 26820	6.8nF 10% 16V 0402
2U42	3198 017 34730	47nF 16V 0603
2V11	3198 035 04710	470pF 50V 0402
2V12	3198 035 04710	470pF 50V 0402
2Y00	2238 869 15101	100pF 5% 50V 0402
2Y01	2238 869 15101	100pF 5% 50V 0402
2Y02	2238 869 15101	100pF 5% 50V 0402
2Y03	2238 869 15101	100pF 5% 50V 0402
2Y06	2020 552 96618	1nF 10% 50V 0402
2Y07	2238 869 15101	100pF 5% 50V 0402
2Y08	2020 552 96618	1nF 10% 50V 0402
2Y09	2238 869 15101	100pF 5% 50V 0402
2Y10	2238 869 15101	100pF 5% 50V 0402
2Y11	2020 552 96618	1nF 10% 50V 0402
2Y12	2238 869 15101	100pF 5% 50V 0402
2Y14	2238 869 15101	100pF 5% 50V 0402
2Y15	2238 869 15101	100pF 5% 50V 0402
2Y16	2238 869 15101	100pF 5% 50V 0402
2Y17	2238 869 15101	100pF 5% 50V 0402
2Y18	2238 869 15101	100pF 5% 50V 0402
2Y19	2238 869 15101	100pF 5% 50V 0402
2Y22	2020 552 96618	1nF 10% 50V 0402
2Y23	2238 869 15101	100pF 5% 50V 0402
2Y25	2238 869 15101	100pF 5% 50V 0402
2Y26	2238 869 15101	100pF 5% 50V 0402
2Y27	2020 552 96618	1nF 10% 50V 0402
2Y28	2020 552 96618	1nF 10% 50V 0402
2Y29	2020 552 96618	1nF 10% 50V 0402
2Y30	4822 124 12095	100µF 20% 16V
2Y31	4822 124 12095	100µF 20% 16V
2Y32	2020 552 96618	1nF 10% 50V 0402
2Y33	2020 552 96618	1nF 10% 50V 0402
2Y34	2238 869 15101	100pF 5% 50V 0402
2Y37	2238 869 15101	100pF 5% 50V 0402
2Y38	2238 869 15101	100pF 5% 50V 0402
2Y39	2238 869 15101	100pF 5% 50V 0402
2Y40	2238 869 15101	100pF 5% 50V 0402
2Y41	2238 869 15101	100pF 5% 50V 0402
2Y42	2238 869 15101	100pF 5% 50V 0402
2Y43	2238 869 15101	100pF 5% 50V 0402
2Y49	2238 869 15101	100pF 5% 50V 0402
2Y50	2238 869 15101	100pF 5% 50V 0402
2Y51	2238 869 15101	100pF 5% 50V 0402
2Y52	3198 035 71040	100nF 10% 16V 0402
2Y53	2238 869 15101	100pF 5% 50V 0402
2Z44	4822 126 14519	22pF 5% 50V 0402
2Z45	4822 126 14519	22pF 5% 50V 0402
2Z46	4822 126 14519	22pF 5% 50V 0402
2Z47	4822 126 14519	22pF 5% 50V 0402
2Z48	4822 126 14519	22pF 5% 50V 0402
2Z49	4822 126 14519	22pF 5% 50V 0402
2Z50	4822 126 14519	22pF 5% 50V 0402
2Z51	4822 126 14519	22pF 5% 50V 0402
2Z52	4822 126 14519	22pF 5% 50V 0402
2Z53	4822 126 14519	22pF 5% 50V 0402
2Z55	2238 586 59812	100nF 20% 50V 0603
2Z56	2020 552 96618	1nF 10% 50V 0402
2Z63	2238 586 59812	100nF 20% 50V 0603
2Z64	2238 586 59812	100nF 20% 50V 0603

3001	3198 031 04720	4.7kΩ 5% 0402
3002	3198 031 04720	4.7kΩ 5% 0402
3003	4822 117 13525	24kΩ 1% 0.62W 0603
3005	4822 117 13606	10kΩ 5% 0.01W 0402
3006	4822 117 13543	470Ω 5% 0402
3007	2350 033 10471	4 x 470Ω 5%
3008	2350 033 10101	4 x 100Ω 5%
3009	3198 031 01810	180Ω 5% 0402
3010	4822 117 13606	10kΩ 5% 0.01W 0402
3011	3198 031 04720	4.7kΩ 5% 0402
3012	2350 033 10101	4 x 100Ω 5%
3013	4822 117 13606	10kΩ 5% 0.01W 0402
3014	3198 031 06820	6.8kΩ 5% 0.01W 0402
3015	3198 031 04740	470kΩ 5% 0402
3016	2322 706 71502	1.5kΩ 1% 0402
3017	3198 031 04720	4.7kΩ 5% 0402
3018	4822 117 13606	10kΩ 5% 0.01W 0402
3019	3198 031 04720	4.7kΩ 5% 0402
3020	4822 117 13606	10kΩ 5% 0.01W 0402
3021	4822 117 13606	10kΩ 5% 0.01W 0402

3022	3198 031 01230	12kΩ 5% 0402
3023	4822 117 13601	22kΩ 5% 0402
3024	3198 031 02730	27kΩ 5% 0402
3025	4822 117 13596	220Ω 5% 0.01W 0402
3026	3198 031 04720	4.7kΩ 5% 0402
3027	3198 031 04730	47Ω 5% 0402
3028	3198 031 04720	4.7kΩ 5% 0402
3029	2350 033 10101	4 x 100Ω 5%
3030	3198 031 04720	4.7kΩ 5% 0402
3031	2350 033 10101	4 x 100Ω 5%
3032	4822 117 13606	10kΩ 5% 0.01W 0402
3033	4822 117 11297	100kΩ 5% 0.1W
3034	2350 033 10101	4 x 100Ω 5%
3035	2350 033 10101	4 x 100Ω 5%
3036	3198 031 04730	47Ω 5% 0402
3037	4822 117 13548	1kΩ 5% 0402
3038	4822 117 13606	10kΩ 5% 0.01W 0402
3039	4822 117 13597	330Ω 5% 0402 0.01W
3046	2350 033 10101	4 x 100Ω 5%
3048	2350 033 10101	4 x 100Ω 5%
3049	2350 033 10101	4 x 100Ω 5%
3050	2350 033 10101	4 x 100Ω 5%
3051	2350 033 10101	4 x 100Ω 5%
3052	2350 033 10101	4 x 100Ω 5%
3053	4822 117 13606	10kΩ 5% 0.01W 0402
3054	2350 033 10101	4 x 100Ω 5%
3055	2350 033 10101	4 x 100Ω 5%
3056	2350 033 10101	4 x 100Ω 5%
3057	2350 033 10101	4 x 100Ω 5%
3061	2350 033 10101	4 x 100Ω 5%
3062	4822 117 13606	10kΩ 5% 0.01W 0402
3064	2350 033 10101	4 x 100Ω 5%
3065	3198 031 04720	4.7kΩ 5% 0402
3066	3198 031 04730	47Ω 5% 0402
3067	3198 031 04740	470kΩ 5% 0402
3069	3198 031 01820	1.8kΩ 5% 0.01W 0402
3072	2350 033 10101	4 x 100Ω 5%
3073	2350 033 10471	4 x 470Ω 5%
3074	2350 033 10471	4 x 470Ω 5%
3075	2020 552 96628	10nF 10% 16V 0402
3076	2350 033 10471	4 x 470Ω 5%
3077	3198 031 04720	4.7kΩ 5% 0402
3078	2350 033 10471	4 x 470Ω 5%
3079	3198 031 01820	1.8kΩ 5% 0.01W 0402
3080	4822 117 13606	10kΩ 5% 0.01W 0402
3081	4822 117 13543	470Ω 5% 0402
3082	2350 033 10101	4 x 100Ω 5%
3083	2350 033 10101	4 x 100Ω 5%
3084	4822 117 13606	10kΩ 5% 0.01W 0402
3085	2350 033 10101	4 x 100Ω 5%
3086	2350 033 10101	4 x 100Ω 5%
3087	4822 117 13545	100Ω 1% 0402
3088	3198 031 01820	1.8kΩ 5% 0.01W 0402
3089	4822 117 13545	100Ω 1% 0402
3090	2350 033 10471	4 x 470Ω 5%
3092	3198 031 01820	1.8kΩ 5% 0.01W 0402
3093	4822 117 13606	10kΩ 5% 0.01W 0402
3097	4822 117 13543	470Ω 5% 0402
3099	2350 033 10471	4 x 470Ω 5%
3100	4822 117 13596	220Ω 5% 0.01W 0402
3101	4822 117 13596	220Ω 5% 0.01W 0402
3102	2350 033 10101	4 x 100Ω 5%
3103	4822 117 13543	470Ω 5% 0402
3304	2322 750 63908	3.9Ω 5% Fuse 1206
3370	4822 117 13545	100Ω 1% 0402
3371	4822 117 13546	47Ω 5% 0402
3372	4822 117 13543	470Ω 5% 0402
3376	4822 117 13545	100Ω 1% 0402
3377	4822 117 13545	100Ω 1% 0402
3378	3198 031 01530	15kΩ 5% 0.01W 0402
3380	4822 117 13545	100Ω 1% 0402
3382	4822 117 13543	470Ω 5% 0402
3385	4822 117 13543	470Ω 5% 0402
3393	4822 117 11297	100kΩ 5% 0.1W
3400	4822 117 11152	4.7Ω 5%
3402	2322 750 63908	3.9Ω 5% Fuse 1206
3404	3198 031 05610	560Ω 5% 0.01W 0402
3405	4822 117 13548	1kΩ 5% 0402
3406	2322 705 70279	27Ω 5% 0402
3408	4822 117 13545	100Ω 1% 0402
3411	3198 031 02720	2.7kΩ 5% 0.01W 0402
3412	4822 117 11152	4.7Ω 5%
3413	3198 031 02710	270Ω 5% 0.1W 0402
3414	3198 031 04720	4.7kΩ 5% 0402
3415	4822 117 13602	2.2kΩ 5% 0.01W 0402
3418	3198 031 03910	390Ω 1% 0402
3419	3198 031 03390	33Ω 1% 0402
3422	4822 117 13548	1kΩ 5% 0402
3435	3198 031 04720	4.7kΩ 5% 0402
3436	3198 031 01810	180Ω 5% 0402
3437	4822 117 13543	470Ω 5% 0402
3439	4822 117 13597	330Ω 5% 0402 0.01W
3441	3198 031 05620	5.6kΩ 5% 0.01W 0402
3445	4822 117 13543	470Ω 5% 0402

3463	3198 031 04720	4.7kΩ 5% 0402
3473	4822 117 13548	1kΩ 5% 0402
3474	3198 031 01090	10Ω 5% 0.01W 0402
3475	5322 117 11726	10Ω 5%
3476	3198 031 05610	560Ω 5% 0.01W 0402
3700	3198 031 02290	22Ω 5% 0.1W 0402
3701	4822 117 13548	1kΩ 5% 0402
3702	3198 031 01090	10Ω 5% 0.01W 0402
3706	4822 117 13545	100Ω 1% 0402
3707	4822 117 13545	100Ω 1% 0402
3709	4822 117 13545	100Ω 1% 0402
3710	4822 117 13545	100Ω 1% 0402
3712	3198 031 04730	47Ω 5% 0402
3713	3198 031 01810	180Ω 5% 0402
3714	3198 031 01810	180Ω 5% 0402
3715	3198 031 01810	180Ω 5% 0402
3716	4822 117 11297	100kΩ 5% 0.1W
3717	4822 117 11297	100kΩ 5% 0.1W
3718	4822 117 11297	100kΩ 5% 0.1W
3719	3198 031 03320	3.3kΩ 5% 0402
3720	4822 117 13606	10kΩ 5% 0.01W 0402
3721	4822 117 13545	100Ω 1% 0402
3722	4822 117 13548	1kΩ 5% 0402
3724	4822 117 13545	100Ω 1% 0402
3725	3198 031 03320	3.3kΩ 5% 0402
3726	3198 031 01220	1.2kΩ 5% 0.01W 0402
3727	3198 031 01510	150Ω 5% 0.01W 0402
3728	3198 031 01510	150Ω 5% 0.01W 0402
3729	4822 117 13605	Jumper 0402
3730	3198 031 05610	560Ω 5% 0.01W 0402
3732	3198 031 04730	47Ω 5% 0402
3733	4822 117 13548	1kΩ 5% 0402
3734	4822 117 13545	100Ω 1% 0402
3736	4822 117 13545	100Ω 1% 0402
3737	4822 117 13548	1kΩ 5% 0402
3738	4822 117 13548	1kΩ 5% 0402
3739	3198 031 01230	12kΩ 5% 0402
3740	3198 031 04720	4.7kΩ 5% 0402
3742	4822 117 13601	22kΩ 5% 0402
3743	4822 117 13606	10kΩ 5% 0.01W 0402
3744	4822 117 13602	2.2kΩ 5% 0.01W 0402
3745	4822 117 13548	1kΩ 5% 0402
3746	3198 031 03920	3.9kΩ 5% 0402
3747	3198 031 04730	47Ω 5% 0402
3748	2322 705 70124	120kΩ 5% 0402
3749	3198 031 03920	3.9kΩ 5% 0402
3750	3198 031 03920	3.9kΩ 5% 0402
3751	3198 031 03320	3.3kΩ 5% 0402
3752	4822 117 13605	Jumper 0402
3753	4822 117 13605	Jumper 0402
3754	4822 117 13545	100Ω 1% 0402
3755	3198 031 04720	4.7kΩ 5% 0402
3756	4822 117 13606	10kΩ 5% 0.01W 0402
3757	3198 031 01510	150Ω 5% 0.01W 0402
3758	3198 031 04720	4.7kΩ 5% 0402
3759	4822 117 13596	220Ω 5% 0.01W 0402
3762	3198 031 06890	68Ω 5% 0402
3763	3198 031 06890	68Ω 5% 0402
3764	3198 031 06890	68Ω 5% 0402
3766	4822 117 13548	1kΩ 5% 0402
3767	3198 031 06890	68Ω 5% 0402
3768	3198 031 06890	68Ω 5% 0402
3769	3198 031 06890	68Ω 5% 0402
3770	3198 031 06890	68Ω 5% 0402
3771	3198 031 07590	75Ω 5% 0402
3772	3198 031 07590	75Ω 5% 0402
3773	3198 031 07590	75Ω 5% 0402
3774	3198 031 06890	68Ω 5% 0402
3775	3198 031 06890	68Ω 5% 0402
3776	3198 031 07590	75Ω 5% 0402
3777	3198 031 06890	68Ω 5% 0402
3778	3198 031 04720	4.7kΩ 5% 0402
3779	3198 031 06890	68Ω 5% 0402
3780	3198 031 06890	68Ω 5% 0402
3781	3198 031 06890	68Ω 5% 0402
3782	4822 117 13548	1kΩ 5% 0402
3784	3198 031 06890	68Ω 5% 0402
3792	3198 031 01510	150Ω 5% 0.01W 0402
3793	4822 117 13602	2.2kΩ 5% 0.01W 0402
3794	3198 031 07590	75Ω 5% 0402
3795	3198 031 01510	150Ω 5% 0.01W 0402
3797	3198 031 04720	4.7kΩ 5% 0402
3800	3198 031 07590	75Ω 5% 0402
3801	3198 031 01510	150Ω 5% 0.01W 0402
3802	3198 031 01510	150Ω 5% 0.01W 0402
3803	3198 031 06890	68Ω 5% 0402
3804	3198 031 06890	68Ω 5% 0402
3805	4822 117 13545	100Ω 1% 0402
3811	3198 031 07590	75Ω 5% 0402
3812	3198 031 07590	75Ω 5% 0402
3814	3198 031 07590	75Ω 5% 0402
3815	3198 031 07590	75Ω 5% 0402
3817	3198 031 07590	75Ω 5% 0402
3818	3198 031 07590	75Ω 5% 0402
3820	3198 031 04720	4.7kΩ 5% 0402
3821	3198 031 03390	33Ω 1% 0402
3823	3198 031 06890	68Ω 5% 0402
3826	4822 117 13545	100Ω 1% 0402
3827	4822 117 13545	100Ω 1% 0402
3829	4822 117 13545	100Ω 1% 0402
3830	3198 031 06890	68Ω 5% 0402
3831	3198 031 06890	68Ω 5% 0402
3832	3198 031 06890	68Ω 5% 0402
3833	3198 031 06890	68Ω 5% 0402
3834	3198 031 06890	68Ω 5% 0402
3835	3198 031 06890	68Ω 5% 0402
3836	3198 031 06890	68Ω 5% 0402
3837	3198 031 06890	68Ω 5% 0402
3838	3198 031 06890	68Ω 5% 0402
3839	3198 031 06890	68Ω 5% 0402
3840	3198 031 06890	68Ω 5% 0402
3841	3198 031 06890	68Ω 5% 0402
3842	3198 031 06890	68Ω 5% 0402
3843	3198 031 06890	68Ω 5% 0402
3844	3198 031 06890	68Ω 5% 0402
3845	3198 031 06890	68Ω 5% 0402
3846	3198 031 04720	4.7kΩ 5% 0402
3853	3198 031 04730	47Ω 5% 0402
3855	3198 031 04720	4.7kΩ 5% 0402
3856	3198 031 01090	10Ω 5% 0.01W 0402
3857	3198 031 01090	10Ω 5% 0.01W 0402
3858	3198 031 01090	10Ω 5% 0.01W 0402
3859	3198 031 01090	10Ω 5% 0.01W 0402
3860	3198 031 01090	10Ω 5% 0.01W 0402
3861	3198 031 01090	10Ω 5% 0.01W 0402
3864	4822 117 13545	100Ω 1% 0402
3865	4822 117 13545	100Ω 1% 0402
3867	4822 117 13545	100Ω 1% 0402
3868	4822 117 13545	100Ω 1% 0402
3869	4822 117 13545	100Ω 1% 0402
3870	4822 117 13545	100Ω 1% 0402
3871	4822 117 13545	100Ω 1% 0402
3872	4822 117 13545	100Ω 1% 0402
3873	4822 117 13545	100Ω 1% 0402
3880	3198 031 04730	47Ω 5% 0402
3881	3198 031 04730	47Ω 5% 0402
3882	3198 031 04730	47Ω 5% 0402
3883	3198 031 04730	47Ω 5% 0402
3884	3198 031 04730	47Ω 5% 0402
3885	4822 117 13548	1kΩ 5% 0402
3886	4822 117 13548	1kΩ 5% 0402
3887	4822 117 13548	1kΩ 5% 0402
3888	4822 117 13548	1kΩ 5% 0402
3889	4822 117 13548	1kΩ 5% 0402
3890	4822 117 13548	1kΩ 5% 0402
3891	4822 117 13548	1kΩ 5% 0402
3894	3198 031 01510	150Ω 5% 0.01W 0402
3896	4822 117 13605	Jumper 0402
3900	3198 031 06890	68Ω 5% 0402
3901	3198 031 06890	68Ω 5% 0402
3902	3198 031 06890	68Ω 5% 0402
3903	4822 117 11297	100kΩ 5% 0.1W
3905	3198 031 04720	4.7kΩ 5% 0402
3909	4822 117 13545	100Ω 1% 0402
3911	2350 033 11689	4x 68Ω 5% Netw.
3912	2350 033 11689	4x 68Ω 5% Netw.
3913	2350 033 11229	4x 22Ω 5% Netw.
3914	2350 033 11229	4x 22Ω 5% Netw.
3915	2350 033 11229	4x 22Ω 5% Netw.
3916	2350 033 11229	4x 22Ω 5% Netw.
3917	2350 033 11229	4x 22Ω 5% Netw.
3918	3198 031 06890	68Ω 5% 0402
3919	3198 031 06890	68Ω 5% 0402
3921	3198 031 06890	68Ω 5% 0402
3A00	4822 117 13601	22kΩ 5% 0402
3A01	4822 117 13606	10kΩ 5% 0.01W 0402
3A03	4822 117 13568	6.8Ω 5% 1206
3A04	4822 117 13601	22kΩ 5% 0402
3A05	4822 117 13601	22kΩ 5% 0402
3A06	4822 117 11297	100kΩ 5% 0.1W
3A07	4822 117 11297	100kΩ 5% 0.1W
3A09	4822 117 13601	22kΩ 5% 0402
3A11	4822 117 11297	100kΩ 5% 0.1W
3A12	3198 031 04730	47Ω 5% 0402
3A13	3198 031 04730	47Ω 5% 0402
3A14	3198 031 04730	47Ω 5% 0402
3A15	4822 117 11297	100kΩ 5% 0.1W
3A16	4822 117 13545	100Ω 1% 0402
3A17	4822 117 13545	100Ω 1% 0402
3A18	3198 031 06830	68kΩ 5% 0.01W 0402
3A19	4822 117 13545	100Ω 1% 0402
3A20	4822 117 11297	100kΩ 5% 0.1W
3A21	3198 031 06830	68kΩ 5% 0.01W 0402
3A22	4822 117 11297	100kΩ 5% 0.1W
3A23	3198 031 06830	68kΩ 5% 0.01W 0402
3A24	3198 031 06810	680Ω 5% 0.01W 0402
3A26	3198 031 06830	68kΩ 5% 0.01W 0402
3A27	3198 031 06820	6.8kΩ 5% 0.01W 0402
3A28	3198 031 06820	6.8kΩ 5% 0.01W 0402
3A40	3198 031 01830	18kΩ 5% 0.01W 0402
3A45	3198 031 04730	47Ω 5% 0402
3A46	3198 031 01530	15kΩ 5% 0.01W 0402
3A47	3198 031 04730	47Ω 5% 0402
3A49	3198 031 01830	18kΩ 5% 0.01W 0402
3A51	3198 031 01530	15kΩ 5% 0.01W 0402
3A52	3198 031 05630	56kΩ 5% 0402
3A53	3198 031 05630	56kΩ 5% 0402
3A55	4822 117 13597	330Ω 5% 0402 0.01W
3A60	4822 117 11297	100kΩ 5% 0.1W
3A61	4822 117 13597	330Ω 5% 0402 0.01W
3A63	4822 117 13601	22kΩ 5% 0402
3A64	3198 031 04730	47Ω 5% 0402
3A65	4822 117 11297	100kΩ 5% 0.1W
3A66	4822 117 11297	100kΩ 5% 0.1W
3C00	4822 117 13602	2.2kΩ 5% 0.01W 0402
3C01	3198 031 01090	10Ω 5% 0.01W 0402
3C03	4822 117 13606	10kΩ 5% 0.01W 0402
3C04	4822 117 13606	10kΩ 5% 0.01W 0402
3C05	4822 117 13543	470Ω 5% 0402
3C08	4822 051 30103	10kΩ 5% 0.062W
3C10	4822 117 13545	100Ω 1% 0402
3C11	4822 117 13545	100Ω 1% 0402
3C12	3198 031 06890	68Ω 5% 0402
3E00	4822 117 13606	10kΩ 5% 0.01W 0402
3E01	4822 117 13548	1kΩ 5% 0402
3E02	4822 117 13548	1kΩ 5% 0402
3E03	4822 117 13548	1kΩ 5% 0402
3E04	4822 117 13548	1kΩ 5% 0402
3E05	3198 031 01520	1.2kΩ 5% 0.01W 0402
3E06	4822 117 13545	100Ω 1% 0402
3E07	4822 117 13545	100Ω 1% 0402
3E08	4822 117 13545	100Ω 1% 0402
3E11	4822 117 13543	470Ω 5% 0402
3E12	4822 117 13543	470Ω 5% 0402
3E14	4822 117 13548	1kΩ 5% 0402
3E16	3198 031 02720	2.7kΩ 5% 0.01W 0402
3E18	4822 117 13545	100Ω 1% 0402
3E19	4822 117 13545	100Ω 1% 0402
3E37	4822 117 13545	100Ω 1% 0402
3E50	4822 117 13606	10kΩ 5% 0.01W 0402
3E51	4822 117 13606	10kΩ 5% 0.01W 0402
3E52	4822 117 13606	10kΩ 5% 0.01W 0402
3E53	4822 117 13606	10kΩ 5% 0.01W 0402
3E54	4822 117 13546	47Ω 5% 0402
3E55	4822 117 13606	10kΩ 5% 0.01W 0402
3E56	4822 117 13603	33kΩ 5% 0402
3E57	4822 117 11297	100kΩ 5% 0.1W
3E58	4822 117 13546	47Ω 5% 0402
3E59	4822 117 13606	10kΩ 5% 0.01W 0402
3E61	4822 117 13546	47Ω 5% 0402
3E62	4822 117 13548	1kΩ 5% 0402
3E63	4822 117 13606	10kΩ 5% 0.01W 0402
3E64	4822 117 13606	10kΩ 5% 0.01W 0402
3E69	3198 031 04720	4.7kΩ 5% 0402
3E70	3198 031 04720	4.7kΩ 5% 0402
3E73	4822 117 13606	10kΩ 5% 0.01W 0402
3E74	4822 117 13546	47Ω 5% 0402
3E77	4822 117 13546	47Ω 5% 0402
3E78	4822 117 13546	47Ω 5% 0402
3E79	4822 117 13546	47Ω 5% 0402
3E80	4822 117 13546	47Ω 5% 0402
3E81	4822 117 13546	47Ω 5% 0402
3E82	3198 031 01090	10Ω 5% 0.01W 0402
3E83	3198 031 01090	10Ω 5% 0.01W 0402
3E84	3198 031 01090	10Ω 5% 0.01W 0402
3E85	3198 031 01090	10Ω 5% 0.01W 0402
3E86	3198 031 01090	10Ω 5% 0.01W 0402
3E88	4822 117 13546	47Ω 5% 0402
3E89	4822 117 13546	47Ω 5% 0402
3E90	3198 031 06890	68Ω 5% 0402
3E91	3198 031 03390	33Ω 1% 0402
3I07	4822 117 13606	10kΩ 5% 0.01W 0402
3I08	4822 117 13597	330Ω 5% 0402 0.01W
3I28	4822 117 13545	100Ω 1% 0402
3I29	4822 051 30759	75Ω 5% 0.062W
3I30	4822 051 30759	75Ω 5% 0.062W
3I31	4822 051 30759	75Ω 5% 0.062W
3I32	4822 117 13548	1kΩ 5% 0402
3I33	4822 051 30101	100Ω 5% 0.062W
3I34	4822 117 13606	10kΩ 5% 0.01W 0402
3I35	4822 051 30101	100Ω 5% 0.062W
3I36	4822 117 13601	22kΩ 5% 0402
3I37	4822 117 13601	22kΩ 5% 0402
3I38	4822 117 13601	22kΩ 5% 0402
3I40	4822 051 30101	100Ω 5% 0.062W
3I41	4822 117 13548	1kΩ 5% 0402
3I42	4822 117 13548	1kΩ 5% 0402
3I44	4822 117 13606	10kΩ 5% 0.01W 0402
3I45	3198 031 04730	47Ω 5% 0402
3I46	4822 117 13545	100Ω 1% 0402
3I47	4822 117 13602	2.2kΩ 5% 0.01W 0402
3I49	4822 117 13545	100Ω 1% 0402

3I50	4822 051 30271	270Ω 5% 0.062W
3I51	4822 051 30101	100Ω 5% 0.062W
3I52	4822 051 30271	270Ω 5% 0.062W
3I53	4822 051 30101	100Ω 5% 0.062W
3I54	4822 051 30101	100Ω 5% 0.062W
3I55	4822 051 30759	75Ω 5% 0.062W
3I56	4822 051 30101	100Ω 5% 0.062W
3I57	4822 051 30759	75Ω 5% 0.062W
3I58	4822 051 30101	100Ω 5% 0.062W
3I59	4822 051 30759	75Ω 5% 0.062W
3I60	4822 051 30759	75Ω 5% 0.062W
3I61	4822 051 30101	100Ω 5% 0.062W
3I62	4822 051 30101	100Ω 5% 0.062W
3I63	4822 051 30392	3.9Ω 5% 0.063W 0603
3I64	3198 031 08220	8.2kΩ 5% 0.5W
3I65	4822 051 30101	100Ω 5% 0.062W
3I66	4822 051 30759	75Ω 5% 0.062W
3I67	4822 051 30759	75Ω 5% 0.062W
3I68	4822 051 30101	100Ω 5% 0.062W
3I69	4822 051 30271	270Ω 5% 0.062W
3I70	4822 051 30101	100Ω 5% 0.062W
3I71	4822 051 30271	270Ω 5% 0.062W
3I72	4822 051 30101	100Ω 5% 0.062W
3I75	4822 051 30101	100Ω 5% 0.062W
3I76	4822 051 30101	100Ω 5% 0.062W
3I77	4822 051 30759	75Ω 5% 0.062W
3I78	4822 051 30759	75Ω 5% 0.062W
3I79	4822 051 30101	100Ω 5% 0.062W
3I80	4822 051 30101	100Ω 5% 0.062W
3I81	3198 031 08220	8.2kΩ 5% 0.5W
3I82	4822 051 30392	3.9Ω 5% 0.063W 0603
3I83	4822 051 30101	100Ω 5% 0.062W
3I84	4822 051 30759	75Ω 5% 0.062W
3I86	4822 051 30759	75Ω 5% 0.062W
3I87	4822 051 30101	100Ω 5% 0.062W
3I88	4822 051 30759	75Ω 5% 0.062W
3I89	4822 051 30271	270Ω 5% 0.062W
3I90	4822 051 30101	100Ω 5% 0.062W
3I91	4822 051 30271	270Ω 5% 0.062W
3I92	4822 051 30101	100Ω 5% 0.062W
3I98	4822 117 13605	Jumper 0402
3I99	4822 051 30271	270Ω 5% 0.062W
3IA0	4822 051 30101	100Ω 5% 0.062W
3IA2	4822 051 30101	100Ω 5% 0.062W
3IA3	4822 117 13601	22kΩ 5% 0402
3IA4	4822 117 13548	1kΩ 5% 0402
3IA5	4822 117 13548	1kΩ 5% 0402
3IA6	4822 117 13548	1kΩ 5% 0402
3IA7	4822 117 13548	1kΩ 5% 0402
3IA8	4822 117 13548	1kΩ 5% 0402
3IB2	4822 117 13545	100Ω 1% 0402
3IB4	4822 117 13601	22kΩ 5% 0402
3IB5	4822 117 13601	22kΩ 5% 0402
3IC1	4822 117 13574	1.5Ω 5% 1206
3IC2	4822 117 13601	22kΩ 5% 0402
3IC3	4822 117 13601	22kΩ 5% 0402
3IC4	4822 117 13545	100Ω 1% 0402
3IC6	4822 117 13545	100Ω 1% 0402
3IC8	3198 031 05610	560Ω 5% 0.01W 0402
3IC9	4822 117 13601	22kΩ 5% 0402
3ID0	3198 031 04720	4.7kΩ 5% 0402
3ID1	3198 031 01540	150kΩ 5% 0402
3ID5	3198 031 01090	10Ω 5% 0.01W 0402
3ID7	4822 117 11297	100kΩ 5% 0.1W
3ID8	4822 117 11297	100kΩ 5% 0.1W
3ID9	3198 031 05610	560Ω 5% 0.01W 0402
3IE2	4822 117 13545	100Ω 1% 0402
3IE3	4822 117 13545	100Ω 1% 0402
3IE7	3198 031 01090	10Ω 5% 0.01W 0402
3IE9	4822 117 13601	22kΩ 5% 0402
3IF0	4822 117 13545	100Ω 1% 0402
3IF5	4822 117 13601	22kΩ 5% 0402
3IF6	4822 051 30101	100Ω 5% 0.062W
3IF7	4822 051 30101	100Ω 5% 0.062W
3IG0	3198 031 05610	560Ω 5% 0.01W 0402
3IG1	3198 031 01090	10Ω 5% 0.01W 0402
3IG3	3198 031 05610	560Ω 5% 0.01W 0402
3IG4	3198 031 01090	10Ω 5% 0.01W 0402
3IG6	3198 031 05610	560Ω 5% 0.01W 0402
3IG7	3198 031 01090	10Ω 5% 0.01W 0402
3IH1	3198 031 04730	47Ω 5% 0402
3IH7	3198 031 05610	560Ω 5% 0.01W 0402
3IH8	3198 031 04730	47Ω 5% 0402
3IH9	3198 031 04730	47Ω 5% 0402
3IHA	4822 117 13545	100Ω 1% 0402
3IHB	4822 117 13545	100Ω 1% 0402
3IHC	4822 117 13545	100Ω 1% 0402
3IHG	3198 021 31820	1.8kΩ 5% 0.062W 0603
3II0	4822 117 13606	10kΩ 5% 0.01W 0402
3II1	4822 117 13601	22kΩ 5% 0402
3II2	4822 117 13601	22kΩ 5% 0402
3II3	3198 031 04730	47Ω 5% 0402
3II4	3198 031 04730	47Ω 5% 0402
3II6	4822 117 13601	22kΩ 5% 0402
3II7	4822 117 13601	22kΩ 5% 0402
3II9	4822 117 13548	1kΩ 5% 0402
3IJ8	4822 117 13548	1kΩ 5% 0402
3IK0	4822 117 13548	1kΩ 5% 0402
3IK2	4822 117 13601	22kΩ 5% 0402
3IK3	4822 117 13601	22kΩ 5% 0402
3IK7	4822 117 11152	4.7Ω 5%
3IN1	4822 117 13548	1kΩ 5% 0402
3IN4	4822 117 11748	Fuse 2.2Ω 5% 1206
3IN5	4822 117 13601	22kΩ 5% 0402
3IN6	4822 117 13601	22kΩ 5% 0402
3IN8	3198 031 01090	10Ω 5% 0.01W 0402
3IO5	4822 117 13606	10kΩ 5% 0.01W 0402
3IO6	4822 117 13606	10kΩ 5% 0.01W 0402
3IP0	3198 031 08220	8.2kΩ 5% 0.5W
3IP1	4822 117 13602	2.2kΩ 5% 0.01W 0402
3IP2	4822 117 13596	220Ω 5% 0.01W 0402
3IP3	4822 051 30759	75Ω 5% 0.062W
3IP4	3198 031 02710	270Ω 5% 0.1W 0402
3IP5	4822 117 11748	Fuse 2.2Ω 5% 1206
3IP6	4822 117 13548	1kΩ 5% 0402
3IP7	3198 031 02720	2.7kΩ 5% 0.01W 0402
3IP8	4822 117 13548	1kΩ 5% 0402
3IQ0	3198 031 01090	10Ω 5% 0.01W 0402
3IQ5	3198 031 04730	47Ω 5% 0402
3IQ6	4822 117 13545	100Ω 1% 0402
3IQ7	4822 117 13545	100Ω 1% 0402
3IQ8	3198 031 03320	3.3kΩ 5% 0402
3IQ9	4822 117 13548	1kΩ 5% 0402
3IR1	3198 031 02710	270Ω 5% 0.1W 0402
3IR2	3198 031 04720	4.7kΩ 5% 0402
3IR3	3198 031 04720	4.7kΩ 5% 0402
3IR4	4822 117 13545	100Ω 1% 0402
3IR5	4822 117 13546	47Ω 5% 0402
3IR6	4822 117 13546	47Ω 5% 0402
3IR7	4822 117 13543	470Ω 5% 0402
3IR8	3198 031 03320	3.3kΩ 5% 0402
3IR9	2322 706 71201	120Ω 1% 0402
3IS0	2322 706 71201	120Ω 1% 0402
3IS1	2322 706 71201	120Ω 1% 0402
3IS2	4822 117 13545	100Ω 1% 0402
3IS5	2322 706 71201	120Ω 1% 0402
3IT0	3198 031 04730	47Ω 5% 0402
3IT1	3198 031 04730	47Ω 5% 0402
3IT4	3198 031 04730	47Ω 5% 0402
3IT5	2322 706 71201	120Ω 1% 0402
3IT6	2322 706 71201	120Ω 1% 0402
3IT7	4822 117 13548	1kΩ 5% 0402
3IT8	4822 117 13548	1kΩ 5% 0402
3IT9	4822 117 13597	330Ω 5% 0402 0.01W
3IU0	4822 117 11748	Fuse 2.2Ω 5% 1206
3IV0	3198 031 08220	8.2kΩ 5% 0.5W
3IV1	4822 117 13548	1kΩ 5% 0402
3IV2	4822 117 13543	470Ω 5% 0402
3IV3	4822 117 13548	1kΩ 5% 0402
3IW4	3198 031 06820	6.8kΩ 5% 0.01W 0402
3IW5	3198 031 02720	2.7kΩ 5% 0.01W 0402
3IY1	4822 117 13601	22kΩ 5% 0402
3IY2	3198 031 01540	150kΩ 5% 0402
3IY3	4822 117 11297	100kΩ 5% 0.1W
3IY4	4822 117 11297	100kΩ 5% 0.1W
3L03	4822 117 13545	100Ω 1% 0402
3L04	4822 117 13545	100Ω 1% 0402
3L05	4822 117 13545	100Ω 1% 0402
3L06	4822 117 13545	100Ω 1% 0402
3L08	3198 031 02720	2.7kΩ 5% 0.01W 0402
3L11	4822 117 13545	100Ω 1% 0402
3L12	4822 117 13543	470Ω 5% 0402
3L28	4822 117 13543	470Ω 5% 0402
3L29	3198 031 01510	150Ω 5% 0.01W 0402
3L30	3198 031 01510	150Ω 5% 0.01W 0402
3L31	3198 031 01510	150Ω 5% 0.01W 0402
3L32	4822 117 13543	470Ω 5% 0402
3L33	4822 117 13543	470Ω 5% 0402
3P65	4822 117 13545	100Ω 1% 0402
3P66	4822 117 13545	100Ω 1% 0402
3P67	3198 031 04720	4.7kΩ 5% 0402
3P69	3198 031 04720	4.7kΩ 5% 0402
3P70	3198 031 04720	4.7kΩ 5% 0402
3P72	3198 031 04720	4.7kΩ 5% 0402
3T10	4822 117 13606	10kΩ 5% 0.01W 0402
3T11	4822 117 13606	10kΩ 5% 0.01W 0402
3T12	4822 117 13548	1kΩ 5% 0402
3T13	4822 117 13606	10kΩ 5% 0.01W 0402
3T14	3198 031 04730	47Ω 5% 0402
3T15	4822 117 13606	10kΩ 5% 0.01W 0402
3T16	4822 117 11297	100kΩ 5% 0.1W
3T17	4822 117 13606	10kΩ 5% 0.01W 0402
3T18	3198 031 02720	2.7kΩ 5% 0.01W 0402
3T19	4822 117 13596	220Ω 5% 0.01W 0402
3T20	2322 706 71002	1kΩ 1% 0402
3T22	3198 031 04720	4.7kΩ 5% 0402
3T23	4822 117 13548	1kΩ 5% 0402
3T24	2322 706 73902	3.9kΩ 1% 0402
3T25	3198 031 06820	6.8kΩ 5% 0.01W 0402
3T26	4822 117 13613	2.2Ω 5% 0603
3T27	4822 051 30109	10Ω 5% 0.062W
3T28	4822 051 30109	10Ω 5% 0.062W
3T29	4822 117 13606	10kΩ 5% 0.01W 0402
3T30	4822 117 13606	10kΩ 5% 0.01W 0402
3T31	4822 117 13545	100Ω 1% 0402
3T32	4822 117 13548	1kΩ 5% 0402
3T33	5322 117 11726	10Ω 5%
3T51	4822 117 13548	1kΩ 5% 0402
3T52	4822 117 13606	10kΩ 5% 0.01W 0402
3T53	3198 031 04740	470kΩ 5% 0402
3T54	4822 117 13606	10kΩ 5% 0.01W 0402
3T55	4822 117 13606	10kΩ 5% 0.01W 0402
3T56	4822 117 13606	10kΩ 5% 0.01W 0402
3T57	4822 051 30101	100Ω 5% 0.062W
3T58	3198 031 04730	47Ω 5% 0402
3T59	4822 117 13606	10kΩ 5% 0.01W 0402
3T60	4822 117 13608	4.7Ω 5% 0603 0.62W
3U01	4822 051 30102	1kΩ 5% 0.062W
3U02	4822 117 13548	1kΩ 5% 0402
3U03	4822 117 13603	33kΩ 5% 0402
3U04	4822 051 20121	120Ω 5% 0.1W
3U05	4822 117 13548	1kΩ 5% 0402
3U06	4822 117 13543	470Ω 5% 0402
3U07	3198 031 02290	22Ω 5% 0.1W 0402
3U08	2322 706 71502	1.5kΩ 1% 0402
3U09	3198 031 05620	5.6kΩ 5% 0.01W 0402
3U10	4822 117 13596	220Ω 5% 0.01W 0402
3U11	4822 051 30121	120Ω 5% 0.062W
3U12	4822 117 13601	22kΩ 5% 0402
3U13	4822 117 13606	10kΩ 5% 0.01W 0402
3U14	4822 051 30102	1kΩ 5% 0.062W
3U15	2322 706 73302	3.3kΩ 1% 0402
3U16	3198 031 01210	120Ω 5% 0.01W 0402
3U17	3198 031 04780	4.7Ω 5% 0402
3U18	2322 706 71002	1kΩ 1% 0402
3U19	3198 031 04720	4.7kΩ 5% 0402
3U20	2322 706 71002	1kΩ 1% 0402
3U21	3198 031 04730	47Ω 5% 0402
3U22	3198 031 02710	270Ω 5% 0.1W 0402
3U23	3198 031 01090	10Ω 5% 0.01W 0402
3U24	4822 117 13601	22kΩ 5% 0402
3U25	3198 031 02240	220kΩ 5% 0.1W 0402
3U26	4822 117 13601	22kΩ 5% 0402
3U27	4822 117 13601	22kΩ 5% 0402
3U28	3198 031 04730	47Ω 5% 0402
3U29	4822 051 30109	10Ω 5% 0.062W
3U30	4822 051 20121	120Ω 5% 0.1W
3U31	4822 051 20121	120Ω 5% 0.1W
3U32	3198 031 01830	18kΩ 5% 0.01W 0402
3U33	4822 117 13606	10kΩ 5% 0.01W 0402
3U34	3198 031 04740	470kΩ 5% 0402
3U35	4822 117 13606	10kΩ 5% 0.01W 0402
3U36	4822 117 13602	2.2kΩ 5% 0.01W 0402
3U37	4822 117 13601	22kΩ 5% 0402
3U38	4822 117 13602	2.2kΩ 5% 0.01W 0402
3U39	4822 117 13601	22kΩ 5% 0402
3U40	3198 031 01540	150kΩ 5% 0402
3U41	4822 117 13548	1kΩ 5% 0402
3U42	4822 117 13606	10kΩ 5% 0.01W 0402
3U43	4822 117 13601	22kΩ 5% 0402
3U44	3198 031 01050	1MΩ 5% 0402
3U45	3198 031 01050	1MΩ 5% 0402
3U46	2322 706 74703	47kΩ 1% 0402
3U51	9965 000 23109	22Ω 5% 0603
3U52	4822 051 30102	1kΩ 5% 0.062W
3U53	3198 031 01830	18kΩ 5% 0.01W 0402
3U54	4822 117 13545	100Ω 1% 0402
3U55	4822 051 30102	1kΩ 5% 0.062W
3U56	3198 031 04720	4.7kΩ 5% 0402
3U57	4822 117 13606	10kΩ 5% 0.01W 0402
3U60	4822 117 13548	1kΩ 5% 0402
3U61	4822 117 13606	10kΩ 5% 0.01W 0402
3U62	4822 117 13548	1kΩ 5% 0402
3U63	4822 117 13602	2.2kΩ 5% 0.01W 0402
3U64	4822 117 13548	1kΩ 5% 0402
3U65	4822 117 13548	1kΩ 5% 0402
3U66	4822 117 13606	10kΩ 5% 0.01W 0402
3U67	4822 117 13545	100Ω 1% 0402
3U68	4822 117 13606	10kΩ 5% 0.01W 0402
3U69	4822 117 13548	1kΩ 5% 0402
3U70	4822 051 30102	1kΩ 5% 0.062W
3V01	3198 031 01810	180Ω 5% 0402
3V02	3198 031 01810	180Ω 5% 0402
3V17	3198 031 01810	180Ω 5% 0402
3V19	3198 031 01810	180Ω 5% 0402
3V20	3198 031 01810	180Ω 5% 0402
3V21	2350 033 11689	4x 68Ω 5% Netw.
3V22	2350 033 11689	4x 68Ω 5% Netw.
3V23	2350 033 11689	4x 68Ω 5% Netw.
3V24	2350 033 11689	4x 68Ω 5% Netw.
3V25	3198 031 01810	180Ω 5% 0402
3V26	3198 031 01810	180Ω 5% 0402

3V27	3198 031 01810	180Ω 5% 0402
3V28	3198 031 01810	180Ω 5% 0402
3V29	3198 031 01810	180Ω 5% 0402
3V30	3198 031 01810	180Ω 5% 0402
3V31	3198 031 01810	180Ω 5% 0402
3V32	3198 031 01810	180Ω 5% 0402
3V33	3198 031 01810	180Ω 5% 0402
3V34	3198 031 01810	180Ω 5% 0402
3V35	4822 117 13545	100Ω 1% 0402
3V36	4822 117 13545	100Ω 1% 0402
3V37	4822 117 13545	100Ω 1% 0402
3V38	4822 117 13545	100Ω 1% 0402
3V39	3198 031 04720	4.7kΩ 5% 0402
3V40	4822 117 13545	100Ω 1% 0402
3V50	4822 117 13606	10kΩ 5% 0.01W 0402
3V51	4822 117 13606	10kΩ 5% 0.01W 0402
3V52	4822 117 13606	10kΩ 5% 0.01W 0402
3V53	4822 117 13606	10kΩ 5% 0.01W 0402
3V54	4822 117 13606	10kΩ 5% 0.01W 0402
3V55	4822 117 13606	10kΩ 5% 0.01W 0402
3V56	4822 117 13545	100Ω 1% 0402
3Y00	4822 117 13545	100Ω 1% 0402
3Y02	4822 117 13545	100Ω 1% 0402
3Y04	4822 117 13602	2.2kΩ 5% 0.01W 0402
3Y05	4822 117 13545	100Ω 1% 0402
3Y06	4822 117 13543	470Ω 5% 0402
3Y09	4822 117 13545	100Ω 1% 0402
3Y10	4822 117 13545	100Ω 1% 0402
3Y11	4822 117 13545	100Ω 1% 0402
3Y12	4822 117 13545	100Ω 1% 0402
3Y13	4822 117 13543	470Ω 5% 0402
3Y14	3198 031 04720	4.7kΩ 5% 0402
3Y17	4822 117 13545	100Ω 1% 0402
3Y18	4822 117 13545	100Ω 1% 0402
3Y19	4822 117 13545	100Ω 1% 0402
3Y20	3198 031 06890	68Ω 5% 0402
3Y21	3198 031 06890	68Ω 5% 0402
3Y22	3198 031 06890	68Ω 5% 0402
3Y23	3198 031 06890	68Ω 5% 0402
3Y24	4822 117 11297	100kΩ 5% 0.1W
3Y25	4822 117 13545	100Ω 1% 0402
3Y34	4822 117 13545	100Ω 1% 0402
3Y35	4822 117 13545	100Ω 1% 0402
3Y36	4822 117 13545	100Ω 1% 0402
3Y37	3198 031 04720	4.7kΩ 5% 0402
3Y38	4822 117 13602	2.2kΩ 5% 0.01W 0402
3Y39	4822 117 13606	10kΩ 5% 0.01W 0402
3Y40	4822 117 13545	100Ω 1% 0402
3Z22	3198 031 04720	4.7kΩ 5% 0402
3Z23	4822 117 13545	100Ω 1% 0402
3Z30	4822 117 13606	10kΩ 5% 0.01W 0402
3Z31	4822 117 13606	10kΩ 5% 0.01W 0402
3Z32	4822 117 13606	10kΩ 5% 0.01W 0402
3Z33	4822 117 13606	10kΩ 5% 0.01W 0402
3Z37	3198 031 04720	4.7kΩ 5% 0402
3Z56	4822 117 13548	1kΩ 5% 0402
9001	4822 117 13605	Jumper 0402
9002	4822 117 13605	Jumper 0402
9007	4822 117 13605	Jumper 0402
9010	4822 117 13605	Jumper 0402
9011	4822 117 13605	Jumper 0402
9012	4822 117 13605	Jumper 0402
9013	4822 117 13605	Jumper 0402
9023	4822 117 13605	Jumper 0402
9024	4822 117 13605	Jumper 0402
9322	4822 117 13605	Jumper 0402
9410	4822 117 13605	Jumper 0402
9413	4822 117 13605	Jumper 0402
9416	4822 117 13605	Jumper 0402
9417	4822 117 13605	Jumper 0402
9418	4822 117 13605	Jumper 0402
9419	4822 117 13605	Jumper 0402
9420	4822 117 13605	Jumper 0402
9423	4822 117 13605	Jumper 0402
9424	4822 117 13605	Jumper 0402
9425	4822 117 13605	Jumper 0402
9426	4822 117 13605	Jumper 0402
9427	4822 117 13545	100Ω 1% 0402
9428	4822 117 13605	Jumper 0402
9702	4822 117 13605	Jumper 0402
9704	4822 117 13605	Jumper 0402
9706	4822 117 13605	Jumper 0402
9707	4822 117 13605	Jumper 0402
9708	4822 117 13605	Jumper 0402
9709	4822 117 13605	Jumper 0402
9710	4822 117 13605	Jumper 0402
9713	4822 117 13605	Jumper 0402
9714	4822 117 13605	Jumper 0402
9715	4822 117 13605	Jumper 0402
9716	4822 117 13605	Jumper 0402
9717	4822 117 13605	Jumper 0402
9718	4822 117 13605	Jumper 0402
9720	4822 117 13605	Jumper 0402
9721	4822 117 13605	Jumper 0402

9722	4822 117 13605	Jumper 0402
9723	4822 117 13605	Jumper 0402
9727	4822 117 13605	Jumper 0402
9728	4822 117 13605	Jumper 0402
9730	4822 117 13605	Jumper 0402
9732	4822 117 13605	Jumper 0402
9751	4822 117 13605	Jumper 0402
9752	4822 117 13605	Jumper 0402
9753	4822 117 13605	Jumper 0402
9754	4822 117 13605	Jumper 0402
9755	4822 117 13605	Jumper 0402
9756	4822 117 13605	Jumper 0402
9757	4822 117 13605	Jumper 0402
9758	4822 117 13605	Jumper 0402
9760	4822 117 13605	Jumper 0402
9761	4822 117 13605	Jumper 0402
9762	4822 117 13605	Jumper 0402
9763	4822 117 13605	Jumper 0402
9765	4822 117 13605	Jumper 0402
9766	4822 117 13605	Jumper 0402
9772	4822 117 13605	Jumper 0402
9773	4822 117 13605	Jumper 0402
9774	4822 117 13605	Jumper 0402
9775	4822 117 13605	Jumper 0402
9800	4822 117 13605	Jumper 0402
9801	4822 117 13605	Jumper 0402
9802	4822 117 13605	Jumper 0402
9803	4822 117 13605	Jumper 0402
9804	4822 117 13605	Jumper 0402
9805	4822 117 13605	Jumper 0402
9806	4822 117 13605	Jumper 0402
9808	4822 117 13605	Jumper 0402
9809	4822 117 13605	Jumper 0402
9811	4822 117 13605	Jumper 0402
9812	4822 117 13605	Jumper 0402
9815	4822 117 13605	Jumper 0402
9816	4822 117 13605	Jumper 0402
9817	4822 117 13605	Jumper 0402
9818	4822 117 13605	Jumper 0402
9820	4822 117 13605	Jumper 0402
9821	4822 117 13605	Jumper 0402
9822	4822 117 13605	Jumper 0402
9823	3198 031 06890	68Ω 5% 0402
9825	4822 117 13605	Jumper 0402
9826	4822 117 13605	Jumper 0402
9827	4822 117 13605	Jumper 0402
9A00	4822 117 13605	Jumper 0402
9A01	4822 117 13605	Jumper 0402
9A04	4822 117 13605	Jumper 0402
9A05	4822 117 13605	Jumper 0402
9A06	4822 117 13605	Jumper 0402
9A07	4822 117 13605	Jumper 0402
9A25	4822 117 13605	Jumper 0402
9A65	4822 117 13605	Jumper 0402
9A67	4822 051 20008	Jumper 0805
9A71	4822 051 20008	Jumper 0805
9C02	4822 117 13605	Jumper 0402
9E60	4822 117 13605	Jumper 0402
9E62	4822 117 13605	Jumper 0402
9E65	4822 117 13605	Jumper 0402
9E66	4822 117 13605	Jumper 0402
9E67	4822 117 13605	Jumper 0402
9E68	4822 117 13605	Jumper 0402
9E69	4822 117 13605	Jumper 0402
9E70	4822 117 13605	Jumper 0402
9E71	4822 117 13605	Jumper 0402
9E72	4822 117 13605	Jumper 0402
9E73	4822 117 13605	Jumper 0402
9E74	4822 117 13605	Jumper 0402
9E76	4822 117 13605	Jumper 0402
9E77	4822 117 13605	Jumper 0402
9I00	4822 117 13605	Jumper 0402
9I02	4822 117 13605	Jumper 0402
9I07	4822 117 13605	Jumper 0402
9I15	4822 117 13605	Jumper 0402
9I28	4822 117 13605	Jumper 0402
9I30	4822 117 13605	Jumper 0402
9I31	4822 117 13605	Jumper 0402
9I32	4822 117 13605	Jumper 0402
9I33	4822 117 13605	Jumper 0402
9I34	4822 117 13605	Jumper 0402
9I35	4822 117 13605	Jumper 0402
9I39	4822 117 13605	Jumper 0402
9I45	4822 117 13605	Jumper 0402
9I49	4822 117 13605	Jumper 0402
9I68	4822 117 13605	Jumper 0402
9I85	4822 117 13605	Jumper 0402
9IA5	4822 117 13605	Jumper 0402
9IA7	4822 117 13605	Jumper 0402
9ID0	4822 117 13605	Jumper 0402
9ID1	4822 117 13605	Jumper 0402
9ID3	4822 117 13605	Jumper 0402
9ID5	4822 117 13605	Jumper 0402
9ID8	4822 117 13605	Jumper 0402

9ID9	4822 117 13605	Jumper 0402
9P69	4822 117 13605	Jumper 0402
9P70	4822 117 13605	Jumper 0402
9P71	4822 117 13605	Jumper 0402
9T01	4822 117 13601	22kΩ 5% 0402
9T04	4822 117 13605	Jumper 0402
9T07	4822 117 13605	Jumper 0402
9T08	4822 117 13605	Jumper 0402
9T11	4822 117 13605	Jumper 0402
9T12	4822 117 13605	Jumper 0402
9T14	4822 117 13605	Jumper 0402
9T50	4822 117 13605	Jumper 0402
9Y00	3198 031 01090	10Ω 5% 0.01W 0402
9Y01	4822 117 13605	Jumper 0402
9Y03	4822 117 13605	Jumper 0402
9Y05	4822 117 13605	Jumper 0402
9Y06	4822 117 13605	Jumper 0402
9Y12	4822 117 13605	Jumper 0402
9Y13	4822 117 13605	Jumper 0402
9Y16	4822 117 13605	Jumper 0402
9Y99	4822 320 12423	Speaker cable

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5003	4822 157 11716	Bead 30Ω at 100MHz
5401	3198 018 56880	6.8μH 10% 0603
5403	2422 549 00195	Bead 40.4MHz
5404	4822 157 11506	Bead 120Ω at 100MHz
5405	4822 157 11506	Bead 120Ω at 100MHz
5406	3198 018 52280	2.2μF 10% 1008
5408	2422 549 00232	Trimmer 78MHz 5JKH
5411	4822 157 11892	0.22μH 10% 0805
5416	4822 157 11716	Bead 30Ω at 100MHz
5703	4822 157 11716	Bead 30Ω at 100MHz
5705	4822 157 11876	6.8μH 10% 0805
5713	4822 157 11716	Bead 30Ω at 100MHz
5714	4822 157 11716	Bead 30Ω at 100MHz
5719	4822 157 11716	Bead 30Ω at 100MHz
5720	4822 157 11716	Bead 30Ω at 100MHz
5722	4822 157 11716	Bead 30Ω at 100MHz
5723	4822 157 11716	Bead 30Ω at 100MHz
5726	4822 157 11716	Bead 30Ω at 100MHz
5728	4822 157 11716	Bead 30Ω at 100MHz
5750	4822 157 11716	Bead 30Ω at 100MHz
5751	4822 157 11716	Bead 30Ω at 100MHz
5752	4822 157 11716	Bead 30Ω at 100MHz
5753	4822 157 11716	Bead 30Ω at 100MHz
5755	4822 157 11716	Bead 30Ω at 100MHz
5756	4822 157 11716	Bead 30Ω at 100MHz
5757	4822 157 11716	Bead 30Ω at 100MHz
5758	4822 157 11716	Bead 30Ω at 100MHz
5759	4822 157 11716	Bead 30Ω at 100MHz
5760	4822 157 11716	Bead 30Ω at 100MHz
5761	4822 157 11716	Bead 30Ω at 100MHz
5762	4822 157 11716	Bead 30Ω at 100MHz
5763	4822 157 11716	Bead 30Ω at 100MHz
5764	4822 157 11716	Bead 30Ω at 100MHz
5767	4822 157 11716	Bead 30Ω at 100MHz
5768	4822 157 11716	Bead 30Ω at 100MHz
5769	4822 157 11716	Bead 30Ω at 100MHz
5770	4822 157 11716	Bead 30Ω at 100MHz
5771	4822 157 11716	Bead 30Ω at 100MHz
5772	4822 157 11716	Bead 30Ω at 100MHz
5775	4822 157 11716	Bead 30Ω at 100MHz
5777	4822 157 11716	Bead 30Ω at 100MHz
5778	4822 157 11876	6.8μH 10% 0805
5800	4822 157 11716	Bead 30Ω at 100MHz
5801	4822 157 11716	Bead 30Ω at 100MHz
5A00	4822 157 11716	Bead 30Ω at 100MHz
5A01	4822 157 11716	Bead 30Ω at 100MHz
5A02	4822 157 11716	Bead 30Ω at 100MHz
5A03	4822 157 11716	Bead 30Ω at 100MHz
5A06	4822 157 11716	Bead 30Ω at 100MHz
5A19	4822 157 11828	22μH 20% 0805
5E00	4822 156 21729	Bead 1kΩ 100MHz 0805
5E01	2422 549 42896	Bead 120Ω 100MHz
5E02	4822 156 21729	Bead 1kΩ 100MHz 0805
5E03	4822 156 21729	Bead 1kΩ 100MHz 0805
5E50	4822 157 11499	Bead 60Ω at 100MHz
5E51	2422 549 42896	Bead 120Ω 100MHz
5E52	2422 549 43062	Bead 600Ω at 100MHz
5E53	2422 536 00779	10μH 20%
5E54	4822 157 11499	Bead 60Ω at 100MHz
5E55	2422 549 43062	Bead 600Ω at 100MHz
5E58	2422 549 43062	Bead 600Ω at 100MHz
5I05	4822 157 11716	Bead 30Ω at 100MHz
5I06	4822 157 11716	Bead 30Ω at 100MHz
5I12	4822 157 11716	Bead 30Ω at 100MHz
5I13	4822 157 11716	Bead 30Ω at 100MHz
5I21	4822 157 11716	Bead 30Ω at 100MHz
5I22	4822 157 11716	Bead 30Ω at 100MHz
5I30	4822 157 11716	Bead 30Ω at 100MHz
5I31	4822 157 11716	Bead 30Ω at 100MHz

5I32	4822 157 11716	Bead 30Ω at 100MHz
5I33	4822 157 11716	Bead 30Ω at 100MHz
5I34	4822 157 11716	Bead 30Ω at 100MHz
5I35	4822 157 11716	Bead 30Ω at 100MHz
5I36	4822 157 11892	0.22µH 10% 0805
5I37	4822 157 11892	0.22µH 10% 0805
5I38	4822 157 11892	0.22µH 10% 0805
5I39	4822 157 11716	Bead 30Ω at 100MHz
5I40	4822 157 11716	Bead 30Ω at 100MHz
5I41	4822 157 11716	Bead 30Ω at 100MHz
5I42	4822 156 21729	Bead 1kΩ 100MHz 0805
5I45	4822 157 11716	Bead 30Ω at 100MHz
5I46	4822 157 11716	Bead 30Ω at 100MHz
5I47	4822 157 11716	Bead 30Ω at 100MHz
5L02	3198 018 54770	0.47µF 10% 0603
5L04	3198 018 54770	0.47µF 10% 0603
5L06	3198 018 54770	0.47µF 10% 0603
5L13	4822 156 21729	Bead 1kΩ 100MHz 0805
5L14	4822 156 21729	Bead 1kΩ 100MHz 0805
5L15	4822 156 21729	Bead 1kΩ 100MHz 0805
5L16	4822 157 11716	Bead 30Ω at 100MHz
5L17	4822 157 11716	Bead 30Ω at 100MHz
5L18	4822 157 11716	Bead 30Ω at 100MHz
5P51	4822 157 11716	Bead 30Ω at 100MHz
5T10	2422 536 00779	10µH 20%
5T11	2422 535 94995	10µF 20% 10145
5T14	2422 549 44197	Bead 220Ω at 100MHz
5T15	2422 549 44197	Bead 220Ω at 100MHz
5T20	4822 157 11716	Bead 30Ω at 100MHz
5T22	4822 157 11716	Bead 30Ω at 100MHz
5T25	2422 535 94134	10µH 20% 0805
5U01	3104 308 20661	Transf. BD13118-02
5U02	2422 536 00779	10µH 20%
5U03	2422 549 44197	Bead 220Ω at 100MHz
5U04	2422 549 44197	Bead 220Ω at 100MHz
5U05	2422 536 00779	10µH 20%
5U06	2422 536 00779	10µH 20%
5Y00	4822 157 11716	Bead 30Ω at 100MHz
5Y01	4822 157 11716	Bead 30Ω at 100MHz
5Y02	2422 549 44197	Bead 220Ω at 100MHz
5Y03	2422 549 44197	Bead 220Ω at 100MHz
5Y06	4822 157 11716	Bead 30Ω at 100MHz
5Y07	4822 157 11716	Bead 30Ω at 100MHz
5Y11	4822 157 11716	Bead 30Ω at 100MHz
5Y12	4822 157 11716	Bead 30Ω at 100MHz
5Y14	4822 157 11716	Bead 30Ω at 100MHz
5Y15	4822 157 11716	Bead 30Ω at 100MHz
5Y16	4822 157 11716	Bead 30Ω at 100MHz
5Y17	4822 157 11716	Bead 30Ω at 100MHz
5Y18	4822 157 11716	Bead 30Ω at 100MHz
5Y19	4822 157 11716	Bead 30Ω at 100MHz
5Y20	4822 157 11716	Bead 30Ω at 100MHz
5Y21	4822 117 10353	150Ω 1% 0.1W
5Y22	4822 117 10353	150Ω 1% 0.1W
5Y23	4822 157 11716	Bead 30Ω at 100MHz
5Z01	2422 549 45325	Bead 67Ω at 100MHz
5Z02	2422 549 45325	Bead 67Ω at 100MHz
5Z03	2422 549 45325	Bead 67Ω at 100MHz
5Z04	2422 549 45325	Bead 67Ω at 100MHz
5Z05	2422 549 45325	Bead 67Ω at 100MHz
5Z06	2422 549 44197	Bead 220Ω at 100MHz
5Z07	2422 549 44197	Bead 220Ω at 100MHz
5Z08	2422 549 44197	Bead 220Ω at 100MHz

6001	4822 130 80622	BAT54
6003	4822 130 80622	BAT54
6004	4822 130 80622	BAT54
6005	4822 130 11422	PLVA2650A
6006	4822 130 11564	UDZ3.9B
6403	9340 552 30115	BA591
6701	4822 130 11397	BAS316
6702	4822 130 11397	BAS316
6703	4822 130 11397	BAS316
6705	4822 130 11397	BAS316
6710	4822 130 11397	BAS316
6711	4822 130 11397	BAS316
6712	4822 130 11397	BAS316
6713	4822 130 11397	BAS316
6714	4822 130 11397	BAS316
6715	4822 130 11397	BAS316
6717	4822 130 11397	BAS316
6718	4822 130 11397	BAS316
6719	9322 128 69685	S1D
6720	4822 130 11397	BAS316
6721	4822 130 11397	BAS316
6723	4822 130 11397	BAS316
6A00	4822 130 11551	UDZS10B
6A01	4822 130 11397	BAS316
6A02	9322 159 70685	MM3Z9V1
6E51	4822 130 11397	BAS316
6E52	4822 130 11397	BAS316
6E53	4822 130 11397	BAS316
6E54	4822 130 11397	BAS316
6E55	4822 130 11397	BAS316
6E56	4822 130 11397	BAS316
6I01	4822 130 10328	BAV99W
6I06	4822 130 10328	BAV99W
6I07	4822 130 10328	BAV99W
6I08	4822 130 11423	PLVA2656A
6I09	4822 130 11423	PLVA2656A
6I10	4822 130 11397	BAS316
6I11	4822 130 11397	BAS316
6I12	4822 130 11397	BAS316
6I13	4822 130 11397	BAS316
6I14	4822 130 10328	BAV99W
6I15	4822 130 10328	BAV99W
6I16	4822 130 10328	BAV99W
6I17	4822 130 10328	BAV99W
6I18	4822 130 10328	BAV99W
6I19	4822 130 10328	BAV99W
6I20	4822 130 10328	BAV99W
6I21	4822 130 10328	BAV99W
6I22	4822 130 11416	PDZ6.8B
6I23	4822 130 11416	PDZ6.8B
6I24	4822 130 11416	PDZ6.8B
6I25	4822 130 11416	PDZ6.8B
6I26	4822 130 11416	PDZ6.8B
6I27	4822 130 11416	PDZ6.8B
6I28	4822 130 11416	PDZ6.8B
6I29	4822 130 11416	PDZ6.8B
6I30	4822 130 11416	PDZ6.8B
6I31	4822 130 11416	PDZ6.8B
6I32	4822 130 11416	PDZ6.8B
6I33	4822 130 11416	PDZ6.8B
6I35	4822 130 11416	PDZ6.8B
6I36	4822 130 11416	PDZ6.8B
6I37	4822 130 11416	PDZ6.8B
6I38	4822 130 11416	PDZ6.8B
6I39	4822 130 11416	PDZ6.8B
6I40	4822 130 11416	PDZ6.8B
6I41	4822 130 11416	PDZ6.8B
6I42	4822 130 11416	PDZ6.8B
6I43	4822 130 11416	PDZ6.8B
6I44	4822 130 11416	PDZ6.8B
6I45	4822 130 11416	PDZ6.8B
6I46	4822 130 11416	PDZ6.8B
6I47	4822 130 11416	PDZ6.8B
6I48	4822 130 11416	PDZ6.8B
6I49	9322 129 41685	BZM55-C12
6I50	4822 130 11416	PDZ6.8B
6I51	4822 130 11416	PDZ6.8B
6I52	4822 130 11416	PDZ6.8B
6I53	4822 130 11416	PDZ6.8B
6I54	4822 130 11416	PDZ6.8B
6I55	4822 130 11416	PDZ6.8B
6I56	4822 130 11416	PDZ6.8B
6I61	4822 130 11416	PDZ6.8B
6I63	4822 130 11397	BAS316
6I64	4822 130 11397	BAS316
6I65	4822 130 11397	BAS316
6I66	4822 130 11397	BAS316
6I68	4822 130 11416	PDZ6.8B
6I69	4822 130 11416	PDZ6.8B
6I70	4822 130 11416	PDZ6.8B
6I75	4822 130 11416	PDZ6.8B
6I77	4822 130 11416	PDZ6.8B
6I90	4822 130 11416	PDZ6.8B
6I91	4822 130 11416	PDZ6.8B
6I92	4822 130 11416	PDZ6.8B
6I93	4822 130 11416	PDZ6.8B
6I99	4822 130 11422	PLVA2650A
6IA0	9322 129 41685	BZM55-C12
6IA7	4822 130 11397	BAS316
6T01	4822 130 11397	BAS316
6T03	4822 130 11397	BAS316
6T08	9340 548 71115	PDZ33B
6T10	4822 130 11397	BAS316
6T11	9340 548 58115	PDZ9.1B
6U01	4822 130 11397	BAS316
6U03	4822 130 11397	BAS316
6U04	4822 130 11397	BAS316
6U05	9322 129 41685	BZM55-C12
6U06	9322 203 37685	BZG05C3V9
6U07	4822 130 11416	PDZ6.8B
6U08	4822 130 80622	BAT54
6U09	4822 130 80622	BAT54
6U10	4822 130 11522	UDZ15B
6U11	4822 130 11397	BAS316
6U12	9340 548 52115	PDZ5.1B
6U13	9340 548 58115	PDZ9.1B
6U14	4822 130 10328	BAV99W
6U16	9340 548 52115	PDZ5.1B
6U17	4822 130 11416	PDZ6.8B

7001	9352 684 81557	SAA5801H/015
7002	3198 010 42320	BC857BW
7003	3198 010 42310	BC847BW
7004	3198 010 42310	BC847BW
7005	9322 172 45668	LF33ABDT
7006		For SW see item 0601
7007	9322 157 20668	MSM51V18165F-60J
7008	3198 010 42310	BC847BW
7009	3198 010 42310	BC847BW
7010	3198 010 42320	BC857BW
7011	9322 130 41668	M24C64-WMN6
7012	9322 199 93668	M29W400DT-55N6
7013	3198 010 42310	BC847BW
7014	3198 010 42320	BC857BW
7017	9340 310 30215	PDTC144ET
7018	9352 115 40118	74LVC245APW
7019	9352 115 40118	74LVC245APW
7020	3198 010 42310	BC847BW
7021	9340 425 30115	BC847BPN
7022	3198 010 42320	BC857BW
7320	3198 010 42310	BC847BW
7322	3198 010 42310	BC847BW
7323	9352 625 24518	TDA9321H/N2
7402	3198 010 42310	BC847BW
7403	3198 010 42310	BC847BW
7407	3198 010 42320	BC857BW
7410	3198 010 42310	BC847BW
7411	3198 010 42310	BC847BW
7414	3198 010 42310	BC847BW
7415	3198 010 42310	BC847BW
7703	3198 010 42310	BC847BW
7705	3198 010 42310	BC847BW
7706	3198 010 70400	74LVC1G14GW
7707	3198 010 42310	BC847BW
7708	3198 010 42310	BC847BW
7709	3198 010 42310	BC847BW
7710	3198 010 42310	BC847BW
7711		For SW see item 0605
7712	9351 870 00118	74HC573PW
7713	9352 688 09557	SAA4978H/V204
7714	9965 000 02179	MS81V04160-25TB
7715	4822 209 73852	PMBT2369
7717	4822 209 73852	PMBT2369
7719	9322 206 19672	MSM56V16160F-7T3-FG
7720	9322 207 36702	T6TX5EF-0001
7725	4822 209 73852	PMBT2369
7752	9322 202 21671	T6TU5XB-0001
7753	9322 206 19672	MSM56V16160F-7T3-FG
7760	9352 730 86557	SAA4998H/V1
7772	9322 170 14668	LF15ABDT
7773	9322 179 78668	LF18ABDT
7774	9322 142 88668	LF25CDT
7A00	4822 209 30095	LM833D
7A01	3198 010 42310	BC847BW
7A02	9322 196 03702	MSP341 1G-QI-B8V3
7A03	4822 209 30095	LM833D
7A04	4822 130 60373	BC856B
7A07	9322 183 05668	TS482ID
7A08	9340 425 20115	BC847BS
7A09	4822 130 60373	BC856B
7A31	9340 425 20115	BC847BS
7E01	9322 142 88668	LF25CDT
7E02		For SW see item 0602
7E03	9352 687 21165	74LVC1G126GW
7E04	9352 687 20125	74LVC1G125GW
7E05	9322 170 14668	LF15ABDT
7E10	9352 759 98118	PCA9515ADP
7E12	9340 425 20115	BC847BS
7E23	9322 181 72671	AD9883AKST-110
7E24	9322 205 36668	AD9283BRSZ-50
7E25	3198 010 42320	BC857BW
7E26	3198 010 42320	BC857BW
7E27	3198 010 42320	BC857BW
7I01	9340 425 20115	BC847BS
7I02	9340 425 20115	BC847BS
7I03	9340 425 20115	BC847BS
7I04	3198 010 42310	BC847BW
7I05	9340 425 30115	BC847BPN
7I07	4822 130 60142	BC869
7I09	3198 010 42310	BC847BW
7I12	9351 869 40118	74HC4053PW
7I18	9322 183 61682	SII907BCQ52
7I19		For SW see item 0603
7I20	9351 869 40118	74HC4053PW
7I21	9340 425 30115	BC847BPN
7I22	3198 010 42310	BC847BW
7I23	9340 425 20115	BC847BS
7I27	3198 010 42320	BC857BW
7I29	3198 010 42320	BC857BW
7I31	3198 010 42320	BC857BW

7I32	9351 869 40118	74HC4053PW
7I35	3198 010 42310	BC847BW
7I36	3198 010 42310	BC847BW
7I37	3198 010 42320	BC857BW
7I38	3198 010 42310	BC847BW
7I44	9340 425 20115	BC847BS
7I49	9340 310 30215	PDTC144ET
7I50	9340 425 30115	BC847BPN
7I51	9340 560 35235	BSH112
7I52	9340 560 35235	BSH112
7I53	9340 425 30115	BC847BPN
7I55	4822 209 16095	BA7657F
7I56	3198 010 42310	BC847BW
7I57	3198 010 42310	BC847BW
7I58	3198 010 42310	BC847BW
7I62	3198 010 42310	BC847BW
7I71	9340 425 30115	BC847BPN
7L01	9322 181 72671	AD9883AKST-110
7L02	4822 209 17398	LD1117DT33
7P56	4822 209 17345	M62320FP
7T01	9322 160 70668	SI4936ADY
7T04	9322 182 77668	L6910
7T10	9340 425 20115	BC847BS
7T11	9340 425 30115	BC847BPN
7T12	3198 010 42310	BC847BW
7T13	9340 425 30115	BC847BPN
7U01	4822 130 60373	BC856B
7U02	4822 130 60373	BC856B
7U03	9322 091 04668	SI4410DY
7U04	9322 091 04668	SI4410DY
7U05	3198 010 42320	BC857BW
7U06	9340 425 20115	BC847BS
7U07	9340 425 30115	BC847BPN
7U08	4822 130 42804	BC817-25
7U09	4822 130 42804	BC817-25
7U10	3198 010 42310	BC847BW
7U11	3198 010 42310	BC847BW
7U12	3198 010 42310	BC847BW
7U13	9340 425 30115	BC847BPN
7V01	9322 200 14671	EP1C12F256C8
7V03	9322 206 19672	MSM56V16160F-7T3-FG
7V04	9340 425 20115	BC847BS
7Y01	9340 310 30215	PDTC144ET
7Y02	3198 010 42320	BC857BW
7Z00	3198 010 42310	BC847BW

Side I/O Panel [D] (FTL2.2E Wrap)

Various

1001	2422 026 05133	Connector SVHS 4p f
1002	4822 267 10975	Soc. CINCH f YeWhRd
1010	4822 267 31014	Soc. headphone
1M36	2422 025 17179	Connector 11p m

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2003	2022 552 05679	1µF 10% 16V 0805
2004	3198 016 36810	680pF 25V 0603
2005	2020 552 94427	100pF 5% 50V
2006	3198 016 36810	680pF 25V 0603
2007	2020 552 94427	100pF 5% 50V
2008	2238 916 15641	22nF 10% 25V 0603
2009	5322 126 11583	10nF 10% 50V 0603
2010	2238 916 15641	22nF 10% 25V 0603
2011	5322 126 11583	10nF 10% 50V 0603

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3000	4822 051 30759	75Ω 5% 0.062W
3004	4822 051 30759	75Ω 5% 0.062W
3008	4822 051 30222	2.2kΩ 5% 0.062W
3009	4822 051 30102	1kΩ 5% 0.062W
3010	4822 051 30333	33kΩ 5% 0.062W
3011	4822 051 30392	3.9Ω 5% 0.063W 0603
3012	4822 051 30102	1kΩ 5% 0.062W
3013	4822 051 30333	33kΩ 5% 0.062W
3016	4822 051 30103	10kΩ 5% 0.062W
3020	4822 051 30103	10kΩ 5% 0.062W
9004	4822 051 30008	Jumper 0603
9005	4822 051 30008	Jumper 0603
9006	4822 051 30008	Jumper 0603
9007	4822 051 30008	Jumper 0603
9008	4822 051 30008	Jumper 0603
9009	4822 051 30008	Jumper 0603
9010	4822 051 30008	Jumper 0603
9011	4822 051 30008	Jumper 0603

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6000	4822 130 11416	PDZ6.8B
6001	4822 130 11416	PDZ6.8B
6002	4822 130 11416	PDZ6.8B
6003	4822 130 11416	PDZ6.8B
6004	4822 130 11416	PDZ6.8B
6005	4822 130 11416	PDZ6.8B
6006	4822 130 11416	PDZ6.8B
6007	4822 130 11416	PDZ6.8B
6008	4822 130 11416	PDZ6.8B
6009	4822 130 11416	PDZ6.8B
6010	4822 130 11416	PDZ6.8B
6011	4822 130 11416	PDZ6.8B

Top Control Panel [E] (FTL2.2E Wrap)

Various

0345	2422 025 16544	Connector 6p m
1701	4822 276 13775	Switch 1p 0.1A 12V
1702	4822 276 13775	Switch 1p 0.1A 12V
1703	4822 276 13775	Switch 1p 0.1A 12V
1704	4822 276 13775	Switch 1p 0.1A 12V
1705	4822 276 13775	Switch 1p 0.1A 12V
1710	2422 128 00119	Switch 2p 0.1A 12V
1710	4822 276 14007	Switch 2p 0.1A 12V
8345	3104 311 08141	Cable 6P/480/6P

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3008	4822 117 10845	620Ω 1% 0.1W
3010	4822 117 11534	1.1kΩ 1% 0.1W
3011	4822 117 11951	2kΩ 1% 0.1W
3013	4822 117 13528	200Ω 1% 0.125W 0805
3014	3198 031 03910	390Ω 1% 0402
3017	4822 051 30339	33Ω 5% 0.062W
3018	4822 051 30339	33Ω 5% 0.062W
3019	4822 051 30339	33Ω 5% 0.062W
3020	4822 051 30339	33Ω 5% 0.062W
3021	4822 051 30339	33Ω 5% 0.062W
3022	4822 051 30339	33Ω 5% 0.062W
3023	4822 051 30339	33Ω 5% 0.062W
3024	4822 051 30339	33Ω 5% 0.062W
3025	4822 051 30339	33Ω 5% 0.062W
3026	4822 051 30339	33Ω 5% 0.062W
3027	4822 051 30339	33Ω 5% 0.062W
3028	4822 051 30339	33Ω 5% 0.062W
3999	4822 117 13602	2.2kΩ 5% 0.01W 0402
9000	4822 117 13605	Jumper 0402
9001	4822 117 13605	Jumper 0402
9002	4822 117 13605	Jumper 0402

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6001	9322 198 19685	SML512BC2T
6001	9322 208 45685	SML512BC4TL
6002	9322 198 19685	SML512BC2T
6002	9322 208 45685	SML512BC4TL
6003	9322 198 19685	SML512BC2T
6004	9322 198 19685	SML512BC2T
6004	9322 208 45685	SML512BC4TL
6005	9322 198 19685	SML512BC2T
6005	9322 208 45685	SML512BC4TL
6006	9322 198 19685	SML512BC2T
6007	9322 198 19685	SML512BC2T
6008	9322 198 19685	SML512BC2T
6008	9322 208 45685	SML512BC4TL
6009	9322 198 19685	SML512BC2T
6010	9322 198 19685	SML512BC2T
6010	9322 208 45685	SML512BC4TL
6011	9322 198 19685	SML512BC2T
6011	9322 208 45685	SML512BC4TL
6012	9322 198 19685	SML512BC2T

SCART3 Panel [H] (FTL2.2E Wrap)

Various

1003	2422 025 14911	Socket Euro 21p f
1M07	4822 267 10637	Connector 5p
1M36	2422 025 10655	Connector 11p m
1M37	2422 025 10655	Connector 11p m

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2500	2022 552 05679	1µF 10% 16V 0805
2501	2020 552 94427	100pF 5% 50V
2502	2022 552 05679	1µF 10% 16V 0805
2503	2020 552 94427	100pF 5% 50V
2504	2022 552 05679	1µF 10% 16V 0805
2505	2022 552 05679	1µF 10% 16V 0805
2506	2238 586 59812	100nF 20% 50V 0603
2507	5322 126 11578	1nF 10% 50V 0603
2508	2022 552 05679	1µF 10% 16V 0805
2509	2238 586 59812	100nF 20% 50V 0603
2510	4822 126 14241	330pF 0603 50V
2511	2238 586 59812	100nF 20% 50V 0603
2512	2238 586 59812	100nF 20% 50V 0603
2513	2238 586 59812	100nF 20% 50V 0603
2515	2022 552 05679	1µF 10% 16V 0805
2516	2022 552 05679	1µF 10% 16V 0805
2517	2022 552 05679	1µF 10% 16V 0805

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3500	4822 051 30101	100Ω 5% 0.062W
3501	4822 051 30101	100Ω 5% 0.062W
3502	4822 051 30223	22kΩ 5% 0.062W
3503	4822 051 30101	100Ω 5% 0.062W
3504	4822 051 30101	100Ω 5% 0.062W
3505	4822 051 30223	22kΩ 5% 0.062W
3506	4822 051 30759	75Ω 5% 0.062W
3507	4822 051 30759	75Ω 5% 0.062W
3508	4822 051 30759	75Ω 5% 0.062W
3509	4822 051 30101	100Ω 5% 0.062W
3510	4822 051 30759	75Ω 5% 0.062W
3511	4822 051 30479	47Ω 5% 0.062W
3512	4822 051 30479	47Ω 5% 0.062W
3513	4822 051 30479	47Ω 5% 0.062W
3514	4822 051 30479	47Ω 5% 0.062W
3515	4822 051 30479	47Ω 5% 0.062W
3516	4822 051 30479	47Ω 5% 0.062W
3517	4822 117 12925	47kΩ 1% 0.063W 0603
3522	4822 051 30272	2.7kΩ 5% 0.062W
3523	4822 051 30223	22kΩ 5% 0.062W
3524	4822 051 30479	47Ω 5% 0.062W
3525	4822 051 30102	1kΩ 5% 0.062W
3526	5322 117 13056	8.2kΩ 1% 0.063W 0603
3527	4822 051 30683	68kΩ 5% 0.062W
3528	4822 051 30223	22kΩ 5% 0.062W
3529	4822 051 30102	1kΩ 5% 0.062W
3535	4822 051 30479	47Ω 5% 0.062W
3536	4822 051 30103	10kΩ 5% 0.062W
3543	4822 051 30759	75Ω 5% 0.062W
3599	4822 051 30102	1kΩ 5% 0.062W
3999	4822 051 30102	1kΩ 5% 0.062W
9502	4822 051 30008	Jumper 0603
9508	4822 051 30008	Jumper 0603
9521	4822 051 30008	Jumper 0603
9524	4822 051 30008	Jumper 0603

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6500	4822 130 11416	PDZ6.8B
6501	4822 130 11416	PDZ6.8B
6502	4822 130 11416	PDZ6.8B
6503	4822 130 11416	PDZ6.8B
6504	4822 130 11397	BAS316
6505	4822 130 11416	PDZ6.8B
6506	4822 130 11416	PDZ6.8B
6507	9322 129 41685	BZM55C12
6508	4822 130 11551	UDZS10B

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7501	3198 010 42310	BC847BW
7502	3198 010 42310	BC847BW
7515	9351 869 40118	74HC4053PW
7516	9351 869 40118	74HC4053PW

LED/Switch Panel [J] (FTL2.2E Wrap)

Various

0345	2422 025 16961	Connector 6p m SMD
1040	9322 206 81667	TSOP34836YA1
1M01	2422 025 17103	Connector 3p m SMD
1M20	2422 025 17441	Connector 12p m

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2030	4822 124 23002	10µF 16V
2040	4822 124 12095	100µF 20% 16V
2060	5322 124 41945	22µF 20% 35V
2070	4822 126 14583	470nF 10% 16V 0805
2071	4822 124 23002	10µF 16V

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3011	4822 117 13545	100Ω 1% 0402
3020	4822 117 13606	10kΩ 5% 0.01W 0402
3030	3198 031 04720	4.7kΩ 5% 0402
3031	4822 117 12889	270kΩ 1% 0.063W 0603
3031	4822 117 13632	100kΩ 1% 0603 0.62W
3032	2322 705 70184	180Ω 5% 0402
3033	4822 051 30102	1kΩ 5% 0.062W
3034	4822 117 13548	1kΩ 5% 0402
3035	3198 031 04720	4.7kΩ 5% 0402
3036	3198 031 02280	2.2Ω 5% 0.1W 0402
3037	3198 031 02280	2.2Ω 5% 0.1W 0402
3040	4822 117 13597	330Ω 5% 0402 0.01W
3041	4822 117 13606	10kΩ 5% 0.01W 0402
3042	3198 031 06820	6.8kΩ 5% 0.01W 0402
3051	4822 117 13597	330Ω 5% 0402 0.01W
3060	4822 117 13606	10kΩ 5% 0.01W 0402
3061	4822 051 30331	330Ω 5% 0.062W
3062	4822 117 11373	100Ω 1% 0805
3063	4822 117 13606	10kΩ 5% 0.01W 0402
3064	4822 117 11373	100Ω 1% 0805
3070	2322 705 70475	4.7MΩ 5% 0402
3071	2322 705 70475	4.7MΩ 5% 0402
3072	4822 117 13548	1kΩ 5% 0402
3073	3198 031 03320	3.3kΩ 5% 0402
3074	4822 117 13606	10kΩ 5% 0.01W 0402
3075	3198 031 04720	4.7kΩ 5% 0402
3076	3198 031 03320	3.3kΩ 5% 0402
3077	3198 031 03320	3.3kΩ 5% 0402
3078	3198 031 03320	3.3kΩ 5% 0402
3079	3198 031 03320	3.3kΩ 5% 0402
3091	4822 117 13606	10kΩ 5% 0.01W 0402
3096	4822 117 13606	10kΩ 5% 0.01W 0402
3999	3198 031 04720	4.7kΩ 5% 0402
9010	4822 117 13605	Jumper 0402
9012	4822 117 13605	Jumper 0402
9013	4822 117 13605	Jumper 0402
9015	4822 117 13605	Jumper 0402
9016	4822 117 13605	Jumper 0402
9017	4822 117 13605	Jumper 0402
9019	4822 117 13605	Jumper 0402
9022	4822 051 30008	Jumper 0603
9024	4822 051 30008	Jumper 0603
9026	4822 117 13605	Jumper 0402
9027	4822 117 13605	Jumper 0402
9040	4822 117 13605	Jumper 0402
9043	4822 117 13605	Jumper 0402

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6030	4822 130 11397	BAS316
6031	4822 130 11397	BAS316
6051	4822 130 11395	TLMH3100
6051	4822 130 83915	TLMV3100
6060	9322 198 19685	SML512BC2T
6060	9322 208 45685	SML512BC4TL
6061	4822 130 11397	BAS316
6070	9322 140 63685	TEMD5000

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7030	3198 010 42320	BC857BW
7031	5322 130 62804	BCP53
7032	3198 010 42310	BC847BW
7060	3198 010 42310	BC847BW
7061	3198 010 42310	BC847BW
7070	9322 192 63668	LM358P

Stand-by Supply/Audio Panel [SA] (FTL2.2E Wrap)

Various

1304	2422 025 10647	Connector 4p m
1305	4822 267 10735	Connector 3p
1306	2422 025 16374	Connector 2p m
1307	2422 025 10647	Connector 4p m
1309	2422 025 11143	Connector 3p m
1314	2422 025 10771	Connector 10p m
1315	2422 025 10771	Connector 10p m
1316	2422 025 10772	Connector 12p m
1317	2422 025 10772	Connector 12p m
1318	2422 025 08149	Connector 6p m
1735	4822 267 10918	Connector 3p
1736	2422 025 10768	Connector 3p m
1739	2422 025 10769	Connector 9p m
1M02	2422 025 11244	Connector 7p m
1M03	2422 025 10771	Connector 10p m
1M10	2422 025 09406	Connector 4p m
1M46	2422 025 10655	Connector 11p m

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2101▲	4822 121 51598	2.2nF 5% 400V
2102	4822 124 40207	100µF 20% 25V
2103	2020 552 94427	100pF 5% 50V
2105	2020 552 94427	100pF 5% 50V
2107▲	2020 024 90718	10µF 20% 450V
2108▲	2020 024 90718	10µF 20% 450V
2109	2022 552 05679	1µF 10% 16V 0805
2110	2022 552 05679	1µF 10% 16V 0805
2111	4822 121 43526	47nF 5% 250V
2112	5322 126 11583	10nF 10% 50V 0603
2123	2238 586 59812	100nF 20% 50V 0603
2124	4822 124 40248	10µF 20% 63V
2129	5322 126 11578	1nF 10% 50V 0603
2131	2238 586 15641	22nF 10% 50V 0603
2132	4822 124 40207	100µF 20% 25V
2140	4822 124 40248	10µF 20% 63V
2141	4822 126 14583	470nF 10% 16V 0805
2144	2022 552 05679	1µF 10% 16V 0805
2145	4822 126 13881	470pF 5% 50V
2149	2022 552 05679	1µF 10% 16V 0805
2150	4822 124 12379	220µF 25V
2152	4822 121 70162	10nF 5% 400V
2153	5322 126 11582	6.8nF 10% 63V
2154	3198 017 31530	15nF 20% 50V 0603
2160	4822 124 21913	1µF 20% 63V
2163	4822 124 40207	100µF 20% 25V
2506▲	2252 811 95017	470pF 10% 250V
2507	4822 126 13682	100pF 5% 1kV
2508	4822 124 40764	22µF 100V
2510	2020 021 91668	2200µF 20% 10V
2511	4822 124 12379	220µF 25V
2513▲	4822 126 10206	2.2nF 10% 500V
2515	4822 126 14238	2.2nF 50V 0603
2533	4822 124 40207	100µF 20% 25V
2534	2022 552 05679	1µF 10% 16V 0805
2535	5322 126 11583	10nF 10% 50V 0603
2536	5322 126 11583	10nF 10% 50V 0603
2537	4822 126 14238	2.2nF 50V 0603
2538	5322 126 11583	10nF 10% 50V 0603
2539	2022 552 05679	1µF 10% 16V 0805
2540	5322 126 11583	10nF 10% 50V 0603
2544	5322 126 11583	10nF 10% 50V 0603
2702	5322 126 11578	1nF 10% 50V 0603
2704	5322 126 11578	1nF 10% 50V 0603
2705	2020 552 96684	470nF 10% 25V 0805
2706	2222 580 15649	100nF 10% 50V 0805
2707	4822 126 14585	100nF 10% 0805 50V
2708	2020 552 96326	220nF 10% 16V
2709	4822 126 13881	470pF 5% 50V
2710	4822 126 13881	470pF 5% 50V
2711	5322 126 11578	1nF 10% 50V 0603
2712	2020 552 96683	220nF 10% 50V
2713	2020 552 96684	470nF 10% 25V 0805
2714	3198 017 33330	33nF 20% 16V 0603
2715	5322 126 11578	1nF 10% 50V 0603
2716	4822 126 14241	330pF 0603 50V
2717	5322 121 42498	680nF 5% 63V
2718	4822 122 33761	22pF 5% 50V
2719	5322 126 11578	1nF 10% 50V 0603
2720	2020 552 96326	220nF 10% 16V
2721	4822 126 13881	470pF 5% 50V
2722	4822 126 13881	470pF 5% 50V
2725	2020 552 94427	100pF 5% 50V
2726	3198 017 33330	33nF 20% 16V 0603
2727	5322 126 11578	1nF 10% 50V 0603
2728	4822 126 14241	330pF 0603 50V
2729	5322 121 42498	680nF 5% 63V
2764	4822 126 14491	2.2µF 10V 0805
2766	4822 126 14491	2.2µF 10V 0805
2768	4822 124 40255	100µF 20% 63V
2769	4822 124 40255	100µF 20% 63V
2777	2020 552 96683	220nF 10% 50V
2778	4822 124 40769	4.7µF 20% 100V
2779	2020 552 96683	220nF 10% 50V
2780	2020 552 96683	220nF 10% 50V
2781	2020 552 96683	220nF 10% 50V
2783	4822 124 41751	47µF 20% 50V
2786	2238 586 15641	22nF 10% 50V 0603
2788	4822 124 40255	100µF 20% 63V
2789	2020 552 96683	220nF 10% 50V
2790	4822 124 40255	100µF 20% 63V

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3100	4822 051 30101	100Ω 5% 0.062W
3101	4822 053 20475	4.7MΩ 5% 0.25W
3102	2312 915 11002	1kΩ 1% 0.5W
3103	2312 915 11002	1kΩ 1% 0.5W
3104	4822 051 30479	47Ω 5% 0.062W
3105	4822 051 30221	220Ω 5% 0.062W
3106	4822 051 30391	390Ω 5% 0.062W
3107	4822 051 30391	390Ω 5% 0.062W
3108	4822 053 10478	4.7Ω 5% 1W
3109	4822 051 30391	390Ω 5% 0.062W
3110	4822 051 30391	390Ω 5% 0.062W
3111▲	4822 053 10152	1.5kΩ 5% 1W
3112	4822 051 30391	390Ω 5% 0.062W
3113	9965 000 23109	22Ω 5% 0603
3114	4822 051 30221	220Ω 5% 0.062W
3117	4822 051 30479	47Ω 5% 0.062W
3122	4822 051 30471	47Ω 5% 0.062W
3123	4822 051 30109	10Ω 5% 0.062W
3124	4822 051 30339	33Ω 5% 0.062W
3125	4822 117 12971	15Ω 5% 0603 0.62W
3126	4822 051 30103	10kΩ 5% 0.062W
3127	4822 051 30562	5.6kΩ 5% 0.063W 0603
3128	4822 117 13608	4.7Ω 5% 0603 0.62W
3132	4822 051 30333	33kΩ 5% 0.062W
3134	4822 051 30102	1kΩ 5% 0.062W
3135	4822 051 30331	330Ω 5% 0.062W
3138	4822 051 30105	1MΩ 5% 0.062W
3140	4822 051 30223	22kΩ 5% 0.062W
3141	4822 051 30471	47Ω 5% 0.062W
3142	4822 051 30123	12kΩ 5% 0.1W
3145	4822 051 30472	4.7Ω 5% 0.062W
3146	4822 051 30479	47Ω 5% 0.062W
3147	4822 051 30223	22kΩ 5% 0.062W
3148	4822 051 30479	47Ω 5% 0.062W
3149	4822 051 30103	10kΩ 5% 0.062W
3150	4822 051 30101	100Ω 5% 0.062W
3152	4822 051 30102	1kΩ 5% 0.062W
3153	4822 051 30223	22kΩ 5% 0.062W
3155	4822 050 21003	10kΩ 1% 0.6W
3156	4822 051 30102	1kΩ 5% 0.062W
3157	4822 051 30223	22kΩ 5% 0.062W
3158	4822 051 30479	47Ω 5% 0.062W
3159	4822 051 30479	47Ω 5% 0.062W
3160	4822 051 30102	1kΩ 5% 0.062W
3161	4822 051 30123	12kΩ 5% 0.1W
3171	4822 051 30101	100Ω 5% 0.062W
3172	4822 051 30333	33kΩ 5% 0.062W
3175	4822 051 30103	10kΩ 5% 0.062W
3176	4822 051 30103	10kΩ 5% 0.062W
3509	4822 053 10222	2.2kΩ 5% 1W
3511	4822 051 30683	68kΩ 5% 0.062W
3512	4822 051 30471	47Ω 5% 0.062W
3513	4822 051 30333	33kΩ 5% 0.062W
3515	4822 117 13632	100kΩ 1% 0603 0.62W
3516	4822 051 30472	4.7Ω 5% 0.062W
3517	4822 051 30223	22kΩ 5% 0.062W
3528	4822 051 30472	4.7Ω 5% 0.062W
3529	4822 051 30101	100Ω 5% 0.062W
3530	4822 051 30223	22kΩ 5% 0.062W
3531	4822 051 30153	15kΩ 5% 0.062W
3532	4822 051 30472	4.7Ω 5% 0.062W
3533	4822 051 30152	1.5Ω 5% 0.062W
3534	4822 051 30103	10kΩ 5% 0.062W
3538	4822 051 30101	100Ω 5% 0.062W
3539	4822 051 30471	47Ω 5% 0.062W
3540	4822 051 30222	2.2kΩ 5% 0.062W
3541	4822 051 30222	2.2kΩ 5% 0.062W
3542	4822 051 30103	10kΩ 5% 0.062W
3544	4822 051 30221	220Ω 5% 0.062W
3560	4822 051 30682	6.8Ω 5% 0.062W
3561	4822 051 30392	3.9Ω 5% 0.063W 0603
3562	4822 117 13608	4.7Ω 5% 0603 0.62W
3701	4822 051 30103	10kΩ 5% 0.062W
3702	4822 051 30682	6.8Ω 5% 0.062W
3703	4822 051 30333	33kΩ 5% 0.062W
3704	4822 117 10833	10kΩ 1% 0.1W
3705	4822 051 20828	8.2Ω 5% 0.1W
3706	4822 051 30472	4.7Ω 5% 0.062W
3707	4822 051 30683	68kΩ 5% 0.062W
3708	4822 051 30563	56kΩ 5% 0.062W
3709	4822 117 11503	220Ω 1% 0.1W
3710	4822 051 30223	22kΩ 5% 0.062W
3711	4822 050 21204	120kΩ 1% 0.6W
3712	4822 051 30103	10kΩ 5% 0.062W
3713	2312 915 11202	1.2kΩ 1% 0.5W
3714	4822 117 12925	47kΩ 1% 0.063W 0603
3715	4822 117 12925	47kΩ 1% 0.063W 0603
3716	4822 117 12925	47kΩ 1% 0.063W 0603
3717	4822 117 13632	100kΩ 1% 0603 0.62W

3718	4822 117 13632	100kΩ 1% 0603 0.62W
3721	4822 051 30472	4.7Ω 5% 0.062W
3722	4822 051 30683	68kΩ 5% 0.062W
3723	4822 051 30563	56kΩ 5% 0.062W
3724	4822 117 11503	220Ω 1% 0.1W
3725	4822 051 30223	22kΩ 5% 0.062W
3726	4822 117 11503	220Ω 1% 0.1W
3727	4822 117 11503	220Ω 1% 0.1W
3743	4822 117 11449	2.2kΩ 5% 0.1W 0805
3746	4822 051 30223	22kΩ 5% 0.062W
3747	4822 050 24703	47kΩ 1% 0.6W
3748	4822 051 30471	47Ω 5% 0.062W
3750	4822 117 11449	2.2kΩ 5% 0.1W 0805
3756	4822 117 11449	2.2kΩ 5% 0.1W 0805
3757	4822 117 11449	2.2kΩ 5% 0.1W 0805
3759	4822 051 30332	3.3Ω 5% 0.062W
3760	4822 051 30332	3.3Ω 5% 0.062W
3761	4822 051 20109	10Ω 5% 0.1W
3762	4822 051 30222	2.2kΩ 5% 0.062W
3763	4822 051 30222	2.2kΩ 5% 0.062W
3764	4822 051 20109	10Ω 5% 0.1W
3765	4822 051 30103	10kΩ 5% 0.062W
3766	4822 117 13632	100kΩ 1% 0603 0.62W
3767	4822 117 13632	100kΩ 1% 0603 0.62W
3768	4822 117 13632	100kΩ 1% 0603 0.62W
3790	4822 051 30272	2.7kΩ 5% 0.062W
3791	4822 051 30272	2.7kΩ 5% 0.062W
3792	4822 051 30183	18kΩ 5% 0.062W
3793	4822 051 30183	18kΩ 5% 0.062W
3798	4822 051 30153	15kΩ 5% 0.062W
3999	4822 051 30222	2.2kΩ 5% 0.062W
9008	4822 051 30008	Jumper 0603
9020	4822 051 30008	Jumper 0603
9110	4822 051 30008	Jumper 0603
9717	4822 051 30008	Jumper 0603
9737	4822 051 30008	Jumper 0603

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5102	4822 526 10704	Bead 50 Ω at 100MHz
5103	4822 526 10704	Bead 50 Ω at 100MHz
5104	4822 157 11411	Bead 80Ω at 100MHz
5105	4822 157 11716	Bead 30Ω at 100MHz
5106	3198 018 31090	10μH 10% 0805
5108	4822 526 10704	Bead 50 Ω at 100MHz
5110	4822 157 71736	10μH 5%
5500	3104 308 21181	Transf. BS25320-00
5504	2422 536 00776	33μH 10%
5505	4822 157 11411	Bead 80Ω at 100MHz
5506	4822 157 11411	Bead 80Ω at 100MHz
5507	2422 536 00433	15μH 10%
5701	2422 536 00385	68μH 10%
5702	2422 536 00385	68μH 10%
5703	4822 157 11716	Bead 30Ω at 100MHz
5705	4822 157 11716	Bead 30Ω at 100MHz
5707	4822 157 11411	Bead 80Ω at 100MHz
5708	4822 157 11411	Bead 80Ω at 100MHz
5711	4822 157 11411	Bead 80Ω at 100MHz
5712	4822 157 11411	Bead 80Ω at 100MHz
5730	2422 549 00112	Line filt. 50V 3A
5731	2422 549 00112	Line filt. 50V 3A

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6103	4822 130 10871	SBYV27-200
6104	9340 548 69115	PDZ27B
6105	4822 130 11522	UDZ15B
6106	9340 548 66115	PDZ20B
6108	4822 130 80622	BAT54
6114	4822 130 10871	SBYV27-200
6115	4822 130 80622	BAT54
6116	3198 020 55680	BZX384-C5V6
6120	4822 130 11397	BAS316
6121	4822 130 11397	BAS316
6122	9322 129 34685	BZM55-C3V9
6130	9322 129 41685	BZM55-C12
6132	4822 130 11416	PDZ6.8B
6133	4822 130 11397	BAS316
6134	4822 130 11397	BAS316
6140	4822 130 41487	BYV95C
6142	4822 130 80622	BAT54
6144	4822 130 11397	BAS316
6147	9322 200 23685	SML4736
6148	4822 130 11397	BAS316
6149	3198 020 55680	BZX384-C5V6
6150	9340 292 50135	BZG03-C200
6151	9340 548 71115	PDZ33B
6153	9340 292 50135	BZG03-C200
6156	4822 130 11397	BAS316
6504	9340 418 70133	BYV27-600
6505	9322 161 78682	SB360L-7024
6511	9322 129 41685	BZM55-C12
6531	4822 130 11522	UDZ15B
6532	4822 130 11397	BAS316
6540	4822 130 80622	BAT54
6562	9340 548 67115	PDZ22B
6701	4822 130 11397	BAS316
6702	4822 130 11551	UDZS10B
6703	4822 130 11551	UDZS10B

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7100	3198 010 42320	BC857BW
7101	9340 219 30115	BC817-25W
7102▲	9322 160 34687	FQPF3N60
7105	3198 010 42320	BC857BW
7131▲	9340 557 69127	PHX9NQ20T
7140	3198 010 42310	BC847BW
7150▲	9322 149 04682	TCET1102
7501▲	9322 149 04682	TCET1102
7505	3198 010 42320	BC857BW
7506	3198 010 42310	BC847BW
7507	3198 010 42310	BC847BW
7509	3198 010 42310	BC847BW
7511	9337 331 10215	BST82
7512	9340 422 80115	PMSTA42
7531▲	9340 436 50115	BSP030
7532	3198 010 42310	BC847BW
7560	9340 219 30115	BC817-25W
7700	9322 163 86682	TDA7490L
7701	3198 010 42310	BC847BW
7701	5322 130 60159	BC846B
7703	3198 010 42310	BC847BW
7703	5322 130 60159	BC846B
7704	3198 010 42310	BC847BW
7704	5322 130 60159	BC846B
7705	3198 010 42310	BC847BW
7705	5322 130 60159	BC846B
7706	3198 010 42320	BC857BW
7706	4822 130 60373	BC856B
7707	3198 010 42310	BC847BW
7707	5322 130 60159	BC846B
7708	3198 010 42310	BC847BW
7708	5322 130 60159	BC846B
7709	3198 010 42310	BC847BW
7709	5322 130 60159	BC846B
7710	3198 010 42310	BC847BW
7710	5322 130 60159	BC846B
7711	3198 010 42310	BC847BW
7711	5322 130 60159	BC846B

11. Revision List

Manual xxxx xxx xxxx.0

- First release, with only the FTL2.1E chassis covered.

Manual xxxx xxx xxxx.1

- Combination of the FTL2.1E and FTL2.2E manuals.
- All chapters: small textual and graphical improvements.
- Ch. 2: Lead-free text updated.
- Ch. 8: Model specific option codes and Option Bit explanation table added.
- Ch. 10: Parts lists available for both chassis.